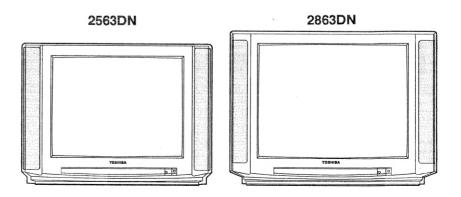
TOSHIBA

SERVICE MANUAL

COLOUR TELEVISION

C6SR Chassis

2563DN, 2863DN



SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

- 1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 27.7 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.9 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
- The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
- Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
 For continued safety, replacement component should only be made after referring the Product

Safety Notice below.

SAFETY PRECAUTION

- This receiver has a nominal working E.H.T. voltage of 26.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
 - Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
 - When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
 - The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
 - Do not hold the C.R.T. by the neck as this is a very dangerous practice.
- It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
- 3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
- Replace blown fuses within the receiver with the fuse specified in the parts list.
- 5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
- Keep wires away from high temperature components.

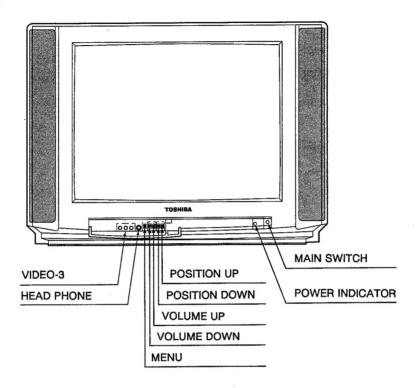
PRODUCT SAFETY NOTICE

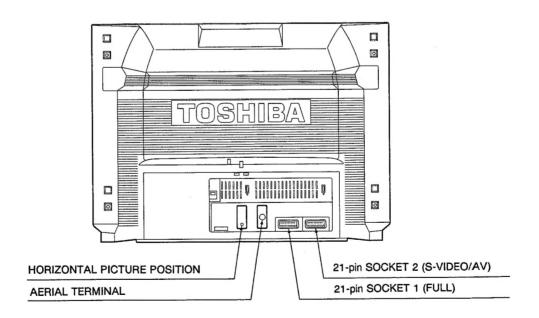
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

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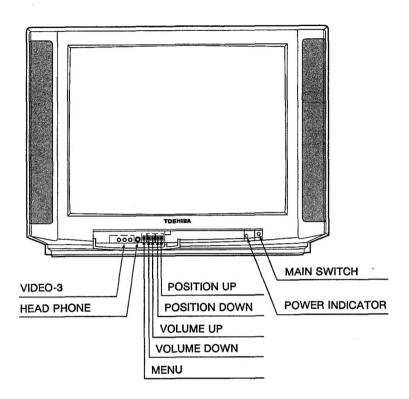
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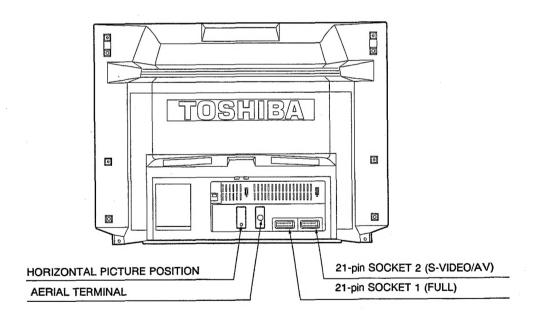
FRONT CONTROLS AND REAR VIEWS (2563DN)



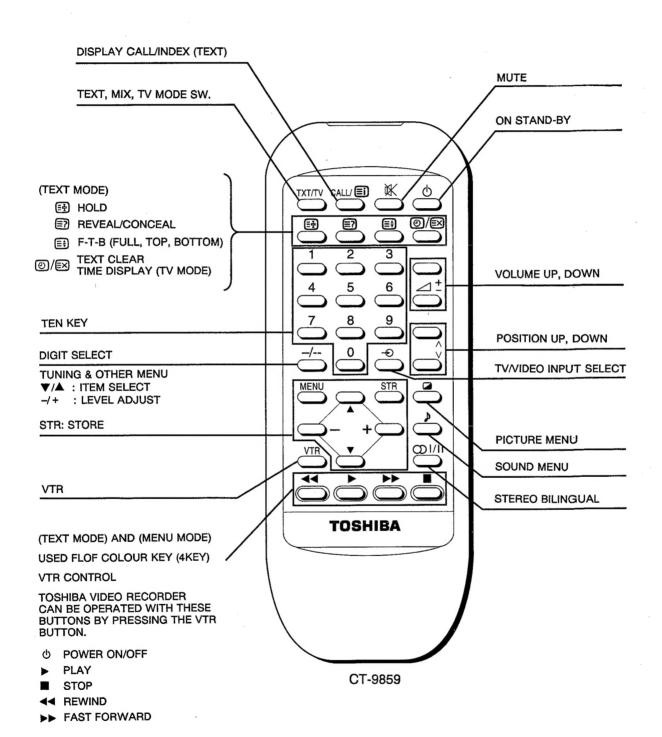


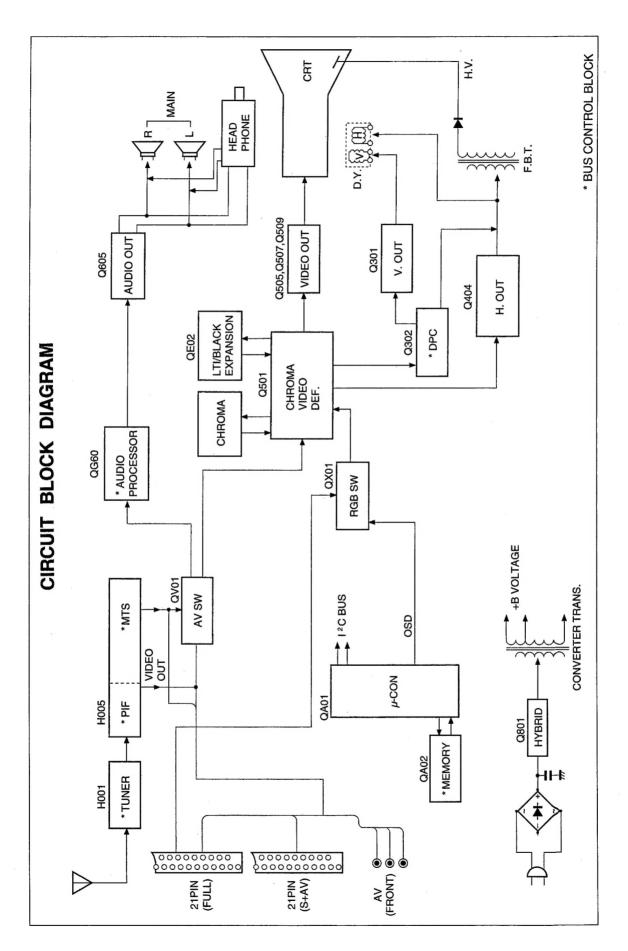
FRONT CONTROLS AND REAR VIEWS (2863DN)





REMOTE HAND HELD UNIT





INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUST-MENT on this chassis.

- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
- 3. High voltage will be measured below 29.9 kV.
- Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 29.9 kV under any condition.

HORIZONTAL CENTER ADJUSTMENT

- 1. Receive the UK PHILIPS pattern.
- 2. Set the contrast and colour to centre, and the brightness to centre.
- Adjust H. CENTER USER Control (R452) so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

PAL MATRIX ADJUSTMENT

- 1. Tune in the colour programme of the Philips pattern.
- 2. Set the COLOUR Control to obtain the proper
- If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
- At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
- 5. Next adjust 1H-DL ADJ. VR (R551) to minimize the
- If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
- 7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

CRT GREY SCALE ADJUSTMENT

- 1. Tune in an active channel.
- Set the SERVICE SW. (S202) in the "H. LINE" position.
- Turn the SCREEN Control (on T461) fully counterclockwise.
- By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
- Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
- Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
- Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).
 The lines may look like white if the CUT OFF
- Controls are adjusted properly.

 8. Set the SERVICE SW. (S202) in the "RECEIVE" position.
- Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
- Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
- 11. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

SUB-BRIGHTNESS ADJUSTMENT

- 1. Tune in a colour programme.
- Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
- 3. Set the COLOUR Control to the centre.
- Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
- Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
- Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
- 7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

ELECTRICAL ADJUSTMENT

MODEL NAME : C6SR Circuit name : VIDEO/CHROMA

Oll cult Hailio	Olicult Haille . VIDEO/OLITIOMA						
Adjustment parts	Name	Setting	Input signal	Measurement point	Instrument	Adjustment procedure	Adjustment standard
R551	PAL matrix VR (amplitude)		PHILIPS Pattern	Q501 62 pin	Synchroscope	Adjust IH-DL ADJ VR (R551) to minimize the blind.	(Same as Current) $\frac{E}{D} = \frac{1+A}{ 1-A } > 10$
L551	PAL matrix coil (phase)		PHILIPS Pattern	Q501 62 pin	Synchroscope	Adjust DL PHASE ADJ coil (L551) to minimize the Venetian Blind.	Rn + 1 - > 0.7 Rn
R255	Sub-bright	Cont: MAX BRT: Center Color: Min.	Sub-bright signal	Screen adjustment		Adjust the number of black collapsed lines in the sub-bright signal.	5 ± 1.5 lines
R557 ~ R559 Screen VR	Screen adjustment (Cut-off VR) Cut-off adjustment R252, R253 Service swi Cont : Min BRT : Cent	R557-R559 (Cut-off VR) R252, R253 Service switch Cont : Min BRT : Center Color : Min	→ Center → Center → ON (HORIZ-line)	1, 9, 8, 4,	Gradually increase the screen to light up slightly. Determine the screen VR adjus Using the cut-off VR (R557~R lines until respective line starts screen becomes almost white.) Turn off the service SW.	Gradually increase the screen brightness until either R, G or B line stato light up slightly. Determine the screen VR adjustment position here. Using the cut-off VR (R557~R559), gradually increase remaining two lines until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) Turn off the service SW.	 Gradually increase the screen brightness until either R, G or B line starts to light up slightly. Determine the screen VR adjustment position here. Using the cut-off VR (R557~R559), gradually increase remaining two lines until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) Turn off the service SW.
R557 ~ R559 R252. R253	White balance	Color :Center BRT : Center CONT : MAX	Upper screen: White Lower screen: Black Two-tone signal (Burst: ON)	СВТ	W/B checker	 Use a checker which adjusts brightness by varying modulation ratio. 	*DB, DD, DN, DS models HIGH LIGHT (103cd/m²) 7195 K - 0.005 uv DARK (17cd/m²) 7695 K - 0 uv * DF model HIGH LIGHT (103cd/m²) 8750 K - 0.002 uv DARK (17cd/m²)

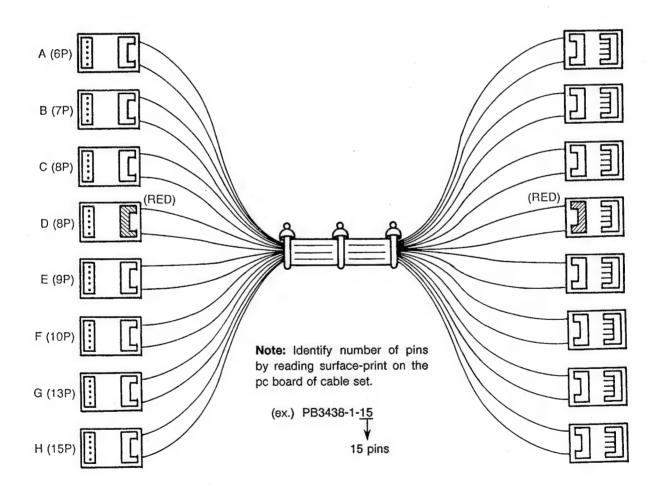
		et the contrast to max., enter. sub-address WID. rtal amplitude so that the and right white flag of the frame. al amplitude so that the tern just disappear t and right horizontal bar eystone distortion.	cent. s VPS so that the upper lips pattern come to the and bottom flags of the frame.
	Adjustment condition and procedure	 ① Conditions: V. height, VERT position. After H. center adjustment, set the contrast to max, bright to center and color to center. Adjustment procedures a. Adjust the horizontal amplitude by the sub-address WID. • For French model: Adjust the horizontal amplitude so that the first inner white lines next to the left and right white flag of Philips pattern just disappear behind the frame. • For other models: adjust the horizontal amplitude so that the left and right white flags of Philips pattern just disappear behind the frame. b. By the sub-address DPC, make the left and right horizontal bar straight. c. By the sub-address KEY, correct the keystone distortion. d. Again, adjust the sub-address WID. 	 ① Conditions: Cont max, Bright cent, Color cent. ② Adjustment procedure a. Change V. Position by the sub-address VPS so that the upper and lower positions of the circle of Philips pattern come to the center of the screen. b. By the sub-address HIT, make the top and bottom flags of Philips pattern just disappear behind the frame.
	Adjustment signal	WG Philips pattern. Do not use Philips pattern for FRANCE SECAM.	WG Philips pattern Do not use Philips pattern for FRANCESECAM.
	Input point, Output point	- Visual adjustment with figures on the screen. (Bus control)	Visual adjustment with figures on the screen. (Bus control)
MODEL NAME: C6SR	Adjustment part	: Horizontal amplitude adjustment : Pin-cushion distortion correction amount adjustment : Keystone distortion correction amount adjustment —	: HEIGHT : VERT. POSITION

SETTING UP THE CHASSIS

EXTENSION CABLE SET

- Extention Cable Set is available for servicing modules of C2DB chassis.
 For 2863DB chassis, however, this cable is used for CHROMA Board and LTI/BLACK EXPANSION Board.
- 2. Identify number of pins by reading surface-print on the pc board of cable set.

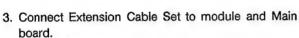
Part No.	Description
23305270	Extension Cable Set

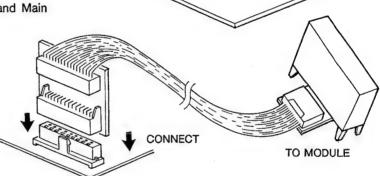


TO USE THE CABLE SET

1. Unsolder corners on shielding case of module, which are marked with arrow in the figure.

2. Remove shielding case, and pull up module to disconnect.





UNSOLDER

PULL UP

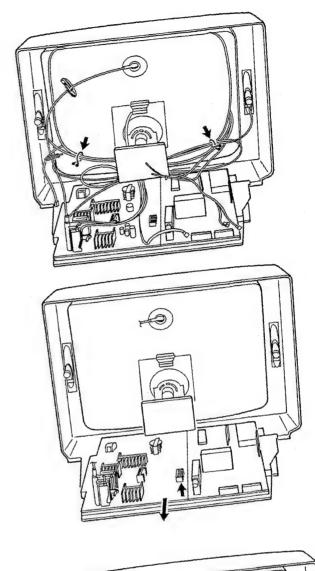
4. Reference chart of module and extension cable pin.

Board name	Number of pin
LTI/ BLACK EXPANSION	9P
CHROMA	10P

HOW TO MAKE THE CHASSIS STAND FOR REPAIR

1. Disconnect the lead wires for the speaker fixed to the degausser coil with three omega clips.

2. Lifting up slightly, pull out the chassis from the front mask.



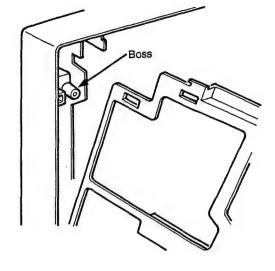
Slit

3. There is a slit at the left front of the bottom side of the front mask. Lift up the left side of the chassis and insert the hook at the right side into the slit.

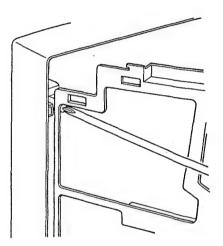
4. 2563DN:

To retain the chassis, use the screw hole (boss) at the upper left for back cover positioning. 2863DN:

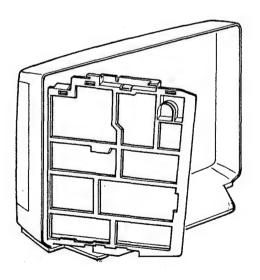
To retain the chassis, use the upper left boss (highest boss).



5. Fix it with screws for back cover fixing.

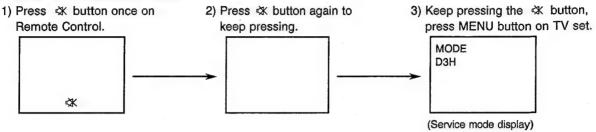


6. After repair works, restore the unit by reversing the above steps.



SERVICE MODE

1. ENTERING TO SERVICE MODE



2. SELECTING THE ADJUSTING ITEMS

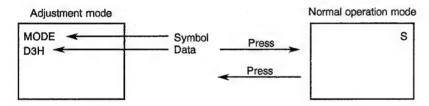
Every pressing of CHANNEL ▲ button changes the adjustment items in the following order. (▼ button for reverse order.)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00 to FF. The variable range depends on the adjusting item.

4. NORMAL OPERATION ON THE SERVICE MODE

Press MENU button on TV.



5. EXIT FROM SERVICE MODE

Press POWER button on the remote control to turn off the TV once.

SELECTING THE ADJUSTING ITEMS

 Every pressing of CHANNEL ▲ button changes the adjustment items in the following order. (▼ button for reverse order.)

	QA02	ITEM		256	3DN	286	3DN
	MEM ADR	NAME	Comment	Preset data	Reference data	Preset data	Reference data
s	0D3H	MODE	MODE DATA	DA	D8	DA	D8
s	0D4H	CNTX	SUB CONTRAST MAX	FF	←	FF	←
S	0D5H	CNTC	SUB CONTRAST CENTER	70	←	70	←
s	0D6H	CNTN	SUB CONTRAST MIN	2B	←	2B	←
F	0D7H	HIT	HIGHT	2A	40	2A	40
F	0D8H	LIN	V LINEARITY	11	0E	11	10
S	0D9H	vsc	V-S CORRECTION	0F	11	0F	0E
F	0DAH	VPS	V SHIFT	02	03	02	03
s	ODBH	VCP	V COMPENSATION	04	←	04	←
F	0DCH	WID	WIDTH	20	16	20	16
F	0DDH	DPC	E-W PARABOLA	20	←	20	←
s	0DEH	CNR	E-W CONER	0A	←	0A	←
F	0DFH	KEY	TRAPEZIUM	0A	09	0A	09
S	0E0H	НСР	H COMPENSATION	03	←	03	←
S	0E1H	VMC	V-∫ CORRECTION	00	0F	00	0F
S	0E2H	SHI	(WIDE) SUB HEIGHT	E3	DA	E3	DB
S	0E3H	SLI	(WIDE) SUB V LINEARITY	00	01	00	02
s	0E4H	SVS	(WIDE) SUB V-S CORRECTION	FA	←	FA	←
S	0E5H	SDP	(WIDE) SUB E-W PARABC÷_A	F0	←	F0	←
S	0E6H	SCN	(WIDE) SUB E-W CONER	FD	←	FD	←
S	0E7H	BASC	SUB BASS CENTER	08	←	08	←
S	0E8H	TREC	SUB TREBLE CENTER	07	←	07	←
S	0E9H	WON2		17	←	17	←
S	0EAH	UBCP	USER BASS DATA AT RESET OF EEPROM	00	←	00	←
s	0EBH	EMX	NICAM ERROR MAX	FC	←	FC	←
S	0ECH	EMN	NICAM ERROR MIN	64	←	64	←
S	0EDH	FMA	NICAM FM ATT	00	←	00	←
S	0EEH	STS	IGR STEREO SEPARATION	00	←	00	←
s	0EFH	TEXT	H/V POSITION OF TEXT	00	←	00	-

S ... semi-fixed data area which is fixed by model. (Do not adjust in field service.)

ADJUSTING THE DATA

1) Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

EXIT FROM SERVICE MODE

1) Press POWER button to turn off the TV once.

F ... This item may require adjustments by models after initialization, when QA02 is replaced.

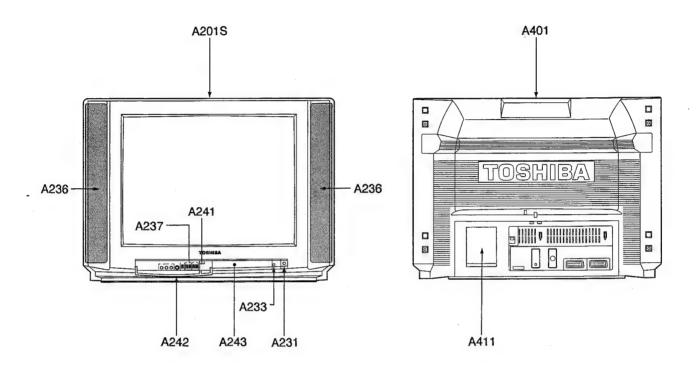
SUB DATA ADDITIONAL DESCRIPTION

Symbol	Description
ніт	V amplitude adjustment.
LIN	V linearity correction 1.
	Linearity balance between top and
	bottom screen.
VSC	V linearity correction 2.
	Linearity balance between top/bottom and center.
VPS	V picture position adjustment.
VCP	Setting of amount of V amplitude correction against variation of screen prightness.
WID	H amplitude adjustment.

Symbol	Description
DPC	H pin-cushion distortion correction.
CNR	H pin-cushion distortion correction at four corners.
KEY	Pedestal distortion correction.
HCP	Setting of amount of H amplitude correction against variation of screen brightness.
VMC	V linearity correction. Linearity balance at 1/4, 3/4 areas from top.
	Linearity

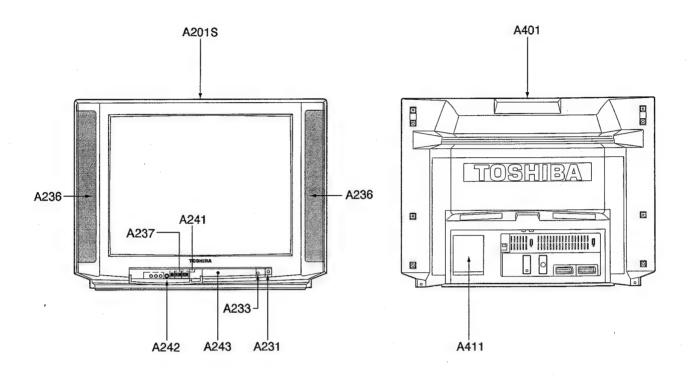
Adjustment parts or Bus control item	Input point/ Output point	Adjustment signal	Adjustment conditions and procedures
Horizontal amplitude adjustment (WID) Pin distortion compensation amount adjustment (DPC) Keystone distortion compensation amount adjustment (KEY)	Visual check of picture (Bus control)	UK Philips pattern Do not use the Philips pattern of FRANCE SECAM.	1. Conditions: After V. HEIGHT, VERT POSITION and H. CENT have been adjusted, set the controllers as follows: Contrast: Max Brightness: Center Color: Center 2. Adjustment procedure a. Adjust the horizontal amplitude by the sub address WID. Adjust so that the left and right white flags of Philips pattern disappear at the very limits. b. Make the left and right vertical bars straight by the sub address DPC. c. Compensate the key distortion by the sub address KEY. d. Again, adjust the sub address WID.
: HEIGHT (HIT) : VERT. POSITION	Visual check of picture (Bus control)	WG Philips pattern Do not use the Philips pattern of FRANCE SECAM.	Conditions: Contrast: Max Brightness: Center Color: Center Adjustment procedure By the bus address VPS, adjust V. position so that the circle of Philips pattern comes to the vertical center. Adjust HIT so that the upper and lower flags of Philips pattern disappear at the very limits.

CABINET REPLACEMENT PARTS LIST (2563DN)



Location No.	Part No.	Description
A201S	23510037	Front Cover
A231	23444895	Button, Power
A233	23430321	Lens (Remote)
A236	23519547	Speaker Grille
A237	23443966	Button, control
A241	70368125	Push Catch for Door
A242	23426921	Door
A243	23421752	Piece (Decorative)
△ A401	23426795	Back Cover
A411	23560157	Label, Model No.

CABINET REPLACEMENT PARTS LIST (2863DN)



Location No.	Part No.	Description
A201S	23510019	Front Cover
A231	23444895	Button, Power
A233	23430321	Lens (REMOTE)
A236	23519547	Speaker Grille
A237	23443966	Button, control
A241	70368125	Push Catch for Door
A242	23426921	Door
A243	23421752	Piece (Decorative)
△A401	23426393	Back Cover
A411	23560145	Label, Model No.

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- •The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- •The PC board assembly with * mark is no longer available after the end of the production.

ABBREVIATIONS:

Capacitors....... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic Resistors....... CF : Carbon Film CC : Carbon Composition MF : Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITO	RS	
C100	24794221	EL, 220μF, ±20%, 16V
C101	24794221	EL, 220μF, ±20%, 16V
C102	24232103	CD, 0.01µF, +80%, -20%
C103	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20%
C120	24232103	CD, 0.01µF, +80%, -20%
C182	24232103	CD, $0.01\mu F$, $+80\%$, -20%
C183	24797229	EL, 2.2μF, ±20%, 50V
C185	24232103	CD, 0.01µF, +80%, -20%
C188	24797100	EL, 10μF, ±20%, 50V
C189	24232103	CD, 0.01μF, +80%, -20%
C190	24232103	CD, 0.01µF, +80%, -20%
C193	24797100	EL, 10μF, ±20%, 50V
C202	24794101	EL, 100μF, ±20%, 16V
C203	24232103	CD, 0.01μF, +80%, -20%
C204	24797220	EL, 22μF, ±20%, 50V
C205	24797478	EL, 0.47μF, ±20%, 50V
C206	24232103	CD, 0.01μF, +80%, -20%
C207	24794100	EL, 10μF, ±20%, 16V
C208	24436220	CD, 22pF
C209	24232103	CD, 0.01μ F, $+80\%$, -20%
C210	24797100	EL, 10μF, ±20%, 50V
C211	24232103	CD, 0.01μF, +80%, -20%
C212	24232103	CD, 0.01μ F, $+80\%$, -20%
C213	24232103	CD, 0.01μF, +80%, -20%
C215	24436330	CD, 33pF
C240	24567474	PF, 0.47μF
C301	24085944	EL, 2.2μF, ±20%, 50V,
		Non-Polar
C302	24212152	CD, 1500pF, ±10%
C303	24214221	CD, 220pF, ±10%, 500V
C304	24590102	PF, 1000pF
C305	24617912	EL, 2.2μF, ±10%, 50V
C306	24073059	EL, 3300μF, ±20%, 25V
C307	24232103	CD, 0.01µF, +80%, −20%
C308	24693473	PF, 0.047μF, 100V
C310	24765222	EL, 2200µF, ±20%, 35V
C311	24214391	CD, 390pF, ±10%, 500V
C313	24082057	PF, 0.22μF, 100V
C314	24591563	PF, 0.056μF

Location No.	Part No.	Description
C316	24567474	PF, 0.47 <i>μ</i> F
C317	24617926	EL, 220μF, ±20%, 16V
C318	24668221	EL, 220μF, ±20%, 35V
C319	24212102	CD, 1000pF, ±10%
C321	24591183	PF, 0.018μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24590683	PF, 0.068μF
C324	24538224	PF, 0.22μF
C326	24567474	PF, 0.47μF
C341	24794101	EL, 100μF, ±20%, 16V
C378	24590104	PF, 0.1μF
C379	24232103	CD, 0.01µF, +80%, -20%
C380	24212102	CD, 1000pF, ±10%
C401	24617920	EL, 120μF, ±20%, 25V
C402	24353241	CD, 240pF
C403	24797339	EL, 3.3μF, ±20%, 50V
C405	24590183	PF, 0.018μF
C406	24590183	PF, 0.018μF
C407	24590273	PF, 0.027μF
C408	24794221	EL, 220μF, ±20%, 16V
C409	24232103	CD, 0.01µF, +80%, -20%
C410	24082261	PF, 5600pF, 100V
C411	24435330	CD, 33pF, 500V
C412	24590182	PF, 1800pF
C413	24214391	CD, 390pF, ±10%, 500V
C414	24212471	CD, 470pF, ±10%
C416	24709100	EL, 10µF, ±20%, 200V
C417	24214821	CD, 820pF, ±10%, 500V
C421	24082673	PF, 0.47μF, 250V
C422	24829823	PF, 0.082μF, 400V
C423	24082673	PF, 0.47μF, 250V
C430	24567474	PF, 0.47μF
C440	24082478	PF, 6200pF, ±3%
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C444	24082518	PF,5600pF, ±3%, 1800V
C445	24095903	PF, 0.056μF, ±10%, 250V
C446	24095883	PF, 0.015μF, ±3%, 630V
C447	24700100	EL, 10μF, ±20%, 250V
C448	24640962	EL, 33μF, ±20%, 200V
C449	24667102	EL, 1000μF, ±20%, 25V

Location	Part No.	Description
No.	Tare No.	Doddingtion
0450	04704474	EL, 470μF, ±20%, 16V
C450		
C463		CD, 2200pF, ±10%
C464		PF, 1.5μF, 250V
C466		PF, 0.33μF, 250V
C470		EL, 22μF, ±20%, 16V
C471	24567474	PF, 0.47μF
C473	24567474	PF, 0.47 <i>μ</i> F
C501	24794331	EL, 330µF, ±20%, 16V CD, 180pF, ±10%
C502	24474181	CD, 180pF, ±10%
C503	24436181	CD, 180pF
C505	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085944	
		Non-Polar
C509	24353330	
C510	24232103	
C510		CD, 0.01µF, +80%, -20%
C512	24353220	
C513	24232103	
C515	24797220	
C516	24590104	•
C517	24590104	
C518	24232103	
C520	24797478	
C521	24538104	PF, 0.1μF
C522	24538104	PF, 0.1μF
C523	24538104	PF, 0.1μF
C524	24232103	CD, 0.01µF, +80%, -20%
C525	24436220	CD, 22pF
C526	24436220	CD, 22pF
C527	24436220	CD, 22pF
C531	24794100	EL, 10μF, ±20%, 16V
C535	24797100	EL, 10μF, ±20%, 50V
C536	24797478	
C537	24794471	
C540	24436331	
		CD, 330pF
C541		
C542	24436331	
C626	24797470	
C633	24538124	
C634	24538124	
C636	24797229	
C637	24667470	EL, 47μF, ±20%, 25V
C638	24667470	EL, 47μF, ±20%, 25V
C639	24796101	EL, 100μF, ±20%, 35V
C641	24795470	EL, 47μF, ±20%, 25V
C642	24797229	EL, 2.2μF, ±20%, 50V
C643	24797479	EL, 4.7μF, ±20%, 50V
C644	24667102	EL, 1000µF, ±20%, 25V
C646	24667102	EL, 1000μF, ±20%, 25V
C647	24232103	CD, 0.01µF, +80%, -20%
C660	24797478	EL, 0.47μF, ±20%, 50V
C674	24590102	PF, 1000pF
C677	24590102	PF, 1000pF
C684	24232103	
C685	24232103	
△C801	24232103	
		CD 2200pF, ±20%, AC400V
△ C802	24092457	
∆C803	24092457	CD 2200pF, ±20%, AC400V
C807	24092281	CD, 4700pF, ±20%, AC250V
C808	24092281	CD, 4700pF, ±20%, AC250V
C809	24086037	EL, 270μF, ±20%, 400V
C810 .	24667331	
C811	24214471	CD, 470pF, ±10%, 500V

Location No.	Part No.	Description
C812	24676220	EL, 22μF, ±20%, 100V
C813	24590222	PF, 2200pF
C814	24214471	CD, 470pF, ±10%, 500V
C815	24095931	PF, 2200pF, 1250V
C816	24795470	EL, 47μF, ±20%, 25V
C817	24092341	
C818	24214471	CD, 470pF, ±10%, 500V
C819	24797470	EL, 47μF, ±20%, 50V EL, 47μF, ±20%, 16V
C820	24794470 24794102	EL, 1000μF, ±20%, 16V
C827 C828	24212101	CD, 100pF, ±10%
C829	24796222	EL, 2200µF, ±20%, 35V
C830	24092337	CD, 220pF, ±10%, 2kV
C831	24086953	EL, 220μF, ±20%, 160V
C833	24797100	EL, 10μF, ±20%, 50V
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	EL, 10μF, ±20%, 50V
C837	24797100	EL, 10μF, ±20%, 50V
C840	24214471	CD, 470pF, ±10%, 500V
C846	24590104	PF, 0.1μF
C849	24214471	CD, 470pF, ±10%, 500V
C892	24794470	EL, 47μF, ±20%, 16V
C901	24700100	EL, 10μF, ±20%, 250V
C902	24092353	CD, 4700pF, ±10%, 2kV
CA12	24794471	
CA23	24590104	PF, 0.1μF PF, 0.1μF
CA24	24590104	PF, 0.1μF
CA25 CA31	24590104 24797470	
CA35	24212101	CD, 100pF, ±10%
CA38	24232103	CD, 0.01µF, +80%, -20%
CA39	24232103	CD, 0.01µF, +80%, -20%
CA41	24436560	CD, 56pF
CA42	24436560	CD, 56pF
CA43	24232103	CD, 0.01μF, +80%, -20%
CA44	24590104	PF, 0.1μF
CA45	24797100	EL, 10μF, ±20%, 50V
CA68	24797100	EL, 10μF, ±20%, 50V
CA69	24232103	
CB02	24794470	
CB09	24794330	EL, 33μF, ±20%, 16V
CB10	24797010	EL, 1μF, ±20%, 50V
CB11		CD, 180pF CD, 560pF, ±10%
CB12 CB13	24212561 24212472	CD, 4700pF, ±10%
CB13	24797229	EL, 2.2μF, ±20%, 50V
CB14	24232103	CD, 0.01μF, +80%, -20%
CC02	24212102	CD, 1000pF, ±10%
CC03	24212102	
CD01	24796220	EL, 22μF, ±20%, 35V
CD11	24676339	EL, 3.3μF, ±20%, 100V
CE01	24794100	EL, 10μF, ±20%, 16V
CE02	24797100	EL, 10μF, ±20%, 50V
CE03	24436820	CD, 82pF
CE04	24797010	EL, 1μF, ±20%, 50V
CE30	24538274	PF, 0.27μF
CG60	24794470	EL, 47μF, ±20%, 16V
CG61	24794101	
CG62	24232103	
CG63	24085944	Non-Polar
CGEA	24085944	EL, 2.2μ F, $\pm 20\%$, 50 V,
CG64	24000344	Non-Polar

Location No.	Part No.	Description
CG65	24085958	EL, 1.0µF, ±20%, 50V, Non-Polar
CG66	24085958	EL, 1.0μF, ±20%, 50V, Non-Polar
CG67	24590822	PF, 8200pF
CG68	24590822	PF, 8200pF
CG69	24590123	PF, 0.012μF
CG70	24590123	PF, 0.012µF
CG71	24232103	CD, 0.01µF, +80%, -20%
CG72	24232103	
CG73	24232103	CD, 0.01µF, +80%, -20%
CG74	24203100	EL, 10μF, ±20%, 16V
		CD, 0.01µF, +80%, -20%
CG75	24669479	EL, 4.7μF, ±20%, 50V
CG76	24669479	EL, 4.7μF, ±20%, 50V
CM12	24590104	PF, 0.1μF
CN01	24473270	CD, 27pF
CN02	24473270	CD, 27pF
CN04	24436101	CD, 100pF
CN07	24232103	CD, 0.01µF, +80%, -20%
CN13	24474121	CD, 120pF, ±10%
CN14	24474102	CD, 1000pF, ±10%
CN16	24590103	PF, 0.01μF
CN17	24232103	CD, 0.01μF, +80%, –20%
CV01	24797100	EL, 10μF, ±20%, 50V
CV02	24206010	EL, 1μF, 50V
CV03	24797100	EL, 10μF, ±20%, 50V
CV04	24206010	EL, 1μF, 50V
CV05	24232103	CD, 0.01µF, +80%, -20%
CV06	24797100	EL, 10μF, ±20%, 50V
CV07	24797010	EL, 1μF, ±20%, 50V
CV08	24797010	EL, 1μF, ±20%, 50V
CV10	24797010	EL, 1μF, ±20%, 50V
CV11	24797010	EL, 1μF, ±20%, 50V
CV12	24797100	EL, 10μF, ±20%, 50V
CV14	24232103	CD, $0.01\mu\text{F}$, $+80\%$, -20%
CV15	24797100	EL, 10μF, ±20%, 50V
CV16	24794100	EL, 10μF, ±20%, 16V
CV17	24794100	EL, 10μF, ±20%, 16V
CV18	24797220	EL, 22μF, ±20%, 50V
CV19	24232103	CD, 0.01μ F, $+80\%$, -20%
CV20	24212102	CD, 1000pF, ±10%
CV21	24212102	CD, 1000pF, ±10%
CV23	24793471	EL, 470μF, ±20%, 10V
CV24	24212102	CD, 1000pF, ±10%
CV25	24212102	CD, 1000pF, ±10%
CV26	24212102	CD, 1000pF, ±10%
CV27	24212102	CD, 1000pF, ±10%
CV31	24793471	EL, 470μF, ±20%, 10V
CV32	24797101	EL, 100μF, ±20%, 50V
CV33	24085981	EL, 10μF, ±20%, 16V,
	000001	Non-Polar
CV34	24797100	EL, 10μF, ±20%, 50V
CV35	24085981	EL, 10μF, ±20%, 16V,
	_ ,500001	Non-Polar
CV37	24212152	CD, 1500pF, ±10%
CV38	24212152	CD, 1500pF, ±10%
CV39	24212152	CD, 1500pF, ±10%
CV40	24212152	CD, 1500pF, ±10%
CV40 CV41	24212132	CD, 1500pF, ±10% CD, 0.01μF, +80%, –20%
CV41	24232103	
CV40 CV72		EL, 330μF, ±20%, 16V
	24794220	EL, 22μF, ±20%, 16V
CV73	24794220	EL, 22μF, ±20%, 16V
CV74 CX02	24436470	CD, 47pF
CAU2	24797478	EL, 0.47μ F, $\pm 20\%$, 50V

Location No.	Part No.	Description
CX03	24797478	EL, 0.47μF, ±20%, 50V
CX04		EL, 0.47µF, ±20%, 50V
CX05	24206010	EL, 1μF, 50V
CX06	24206010	FL. 1 <i>u</i> E. 50V
CX07	24206010	EL, 1μF, 50V
CX08	24797100	EL, 10μF, ±20%, 50V
CX09		EL, 1μF, ±20%, 50V
CX10		EL, 1μF, ±20%, 50V
CX11	24797010	EL, 1μF, ±20%, 50V
RESISTORS		
R201	24366102	CF, 1k ohm
R202	24366122	CF, 1200 ohm
R203		CF, 2200 ohm
R211	24366473	CF, 47k ohm CF, 10k ohm
R212		
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm CF, 33k ohm
	24366333	CF, 33k ohm
R217	24366273	CF, 27k ohm CF, 4700 ohm
R218	24366472	CF, 4700 ohm
R219	24366472	CF, 4700 ohm
R222	24366103	CF, 10k ohm CF, 4700 ohm
R223	24366472	CF, 4700 ohm
R224	24366183	CF, 18k ohm
R228	24366182	CF, 1800 ohm CF, 1k ohm
R231		
R237 R242	24366221	CF, 220 ohm
R242	24300103	CF, 16k ohm (2563DN) CF, 12k ohm (2863DN)
R243	24300123	CF, 12k Onm (2863DN)
R244	24300103	CF, 10k ohm CF, 20k ohm
R245	24366203	CF, 6200 ohm
R246	24366103	CF 10k ohm
R247	24366101	CF, 10k ohm CF, 100 ohm
R252	24066596	VR, 500 ohm, 1/10W
R253	24066596	VR. 500 ohm. 1/10W
R255	24066601	VR, 500 ohm, 1/10W VR, 20k ohm, 1/10W
R260	24366473	CF, 47k ohm CF, 15k ohm
R261	24366153	CF, 15k ohm
R262	24366223	CF, 22k ohm
R266		CF, 22k ohm
R267	24366153	CF, 15k ohm
R268		CF, 47k ohm
R270	24366822	CF, 8200 ohm
R283	24366101	CF, 100 ohm
R301	24366221	CF, 220 ohm
R302	24366274	CF, 270k ohm
R303	24366473	CF, 47k ohm
R304	24366473	CF, 47k ohm (2563DN)
R304	24366333	CF, 33k ohm (2863DN)
R305 R306	24366151 24366683	CF, 150 ohm CF, 68k ohm (2563DN)
R306	24366563	CF, 56k ohm (2863DN)
R307	24366564	CF, 560k ohm (2563DN)
R307	24366394	CF, 390k Ohm (2863DN)
R308	24366102	CF, 1k ohm
R309		OMF, 560 ohm, 2W
R311	24366473	CF, 47k ohm
R312		CF, 200k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366155	CF, 1.5M ohm
R316	24366154	CF, 150k ohm

Location No.	Part No.	Description
R318	24366101	
R319	24366101	CF, 100 ohm
R320		CF, 100 ohm
R321	24366102	CF, 1k ohm
R322		MF, 1.5 ohm, 1/2W
R323		OMF, 0.82 ohm, 1W
R324	24366682	CF, 6800 ohm
R325	24366132	CF, 1300 ohm
R327	24339229	MF, 2.2 ohm, 2W
R329	24366223	
R334		OMF, 560 ohm, 2W (2563DN)
R334	24383751	OMF, 750 ohm, 2W (2863DN)
R336	24383271	OMF, 270 ohm, 2W
R340	24382391	OMF, 390 ohm, 1W
R341	24366182	CF, 1800 ohm
R342	24366562	CF, 1800 ohm CF, 5600 ohm
R343	24310109	MF, 1.0 ohm, 1/2W
R344		
R346	24366102	CF, 3900 ohm CF, 1k ohm
R347		CF, 3900 ohm
R348	24366103	CF. 10k ohm
R349	24366153	CF, 15k ohm
R362		
R402	24366273	OMF, 6800 ohm, 1/2W CF, 27k ohm
R403	24366272	CF, 2700 ohm
R404		OMF, 4700 ohm, 1/2W
R405		CF, 430 ohm
R406		CF, 220 ohm
R407		
R408	24366562	CF, 130 ohm CF, 5600 ohm
R409		CF, 200k ohm
R410		OMF, 4700 ohm, 1/2W
R411		CF, 560 ohm
R413		
R415		CF, 150 ohm
R416		OMF, 2700 ohm, 1W
		Cement, 5600 ohm, 5W
R421		CF, 100k ohm
R430	24366272	CF, 2700 ohm
R431		CF, 1k ohm
R432	243664/3	CF, 47k ohm CF, 33k ohm
R433		
R434		CF, 12k ohm
R435		CF, 10k ohm
R436	24366272	• —
R437		CF, 10k ohm
R440		CF, 4700 ohm
R442	24382102	
R444	24338398	
R446		FR, 150 ohm, 2W
R448	24338338	
R452	24069547	VR, 5k ohm, 0.08W, CC
R470	24338568	MF, 0.56 ohm, 1W
R471	24552101	OMF, 100 ohm, 1/2W
R472	24376393	CF, 39k ohm, 1/2W
R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
	24366153	
R477		OF FOO - 1
R477 R501	24366561	CF, 560 ohm
	24366561 24366334	CF, 330k ohm
R501	24366334	
R501 R502	24366334 24366391	CF, 330k ohm CF, 390 ohm
R501 R502 R504	24366334 24366391 24366822 24366561	CF, 330k ohm CF, 390 ohm CF, 8200 ohm CF, 560 ohm
R501 R502 R504 R507	24366334 24366391 24366822 24366561	CF, 330k ohm CF, 390 ohm CF, 8200 ohm

Location No.	Part No.	Description
R512	2/266102	CF, 1800 ohm
R513	24300102	CF, 1200 ohm
R514	24366122	CF 5600 ohm
R515	24366681	CF, 5600 ohm CF, 680 ohm
R516	24366681	CF, 680 ohm
R517	24366681	CF, 680 ohm
R518	24366475	CF, 680 ohm CF, 4.7M ohm
R520	24366102	CF, 1k ohm
R521	24366562	CF, 5600 ohm CF, 1.8M ohm
R522	24366185	CF, 1.8M ohm
R527	24366154	CF, 150k ohm CF, 3900 ohm
R533	24366392	CF, 3900 ohm
R534	24366101	CF, 100 ohm
R535	24366391	CF, 390 ohm (2563DN) CF, 330 ohm (2863DN)
R535		
R536 R537	24366103	CF, 10k ohm
R538	24300392	CF, 3900 ohm CF, 390 ohm (2563DN)
R538		CF, 330 ohm (2863DN)
R539	24366392	CF. 3900 ohm
R541	24366821	CF, 3900 ohm CF, 820 ohm
R542	24366201	CF. 200 ohm
R543	24366103	CF, 200 ohm CF, 10k ohm
R544	24366101	CF, 100 ohm
R547	24366102	CF, 1k ohm CF, 1k ohm
R548		
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W VR, 10k ohm, 1/10W
R557		
R558		VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W CF, 56 ohm
R565 R566		
R567	24366560	CF, 56 ohm CF, 56 ohm
R568	24366102	CF, 1k ohm
R570	24366272	CF. 2700 ohm
R571	24366272	CF, 2700 ohm CF, 2700 ohm
R572	24366272	CF, 2700 ohm
R580	24366271	CF, 270 ohm CF, 270 ohm (2563DN)
R581	24366271	CF, 270 ohm (2563DN)
R581	24366221	CF, 220 ohm (2863DN)
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R633 R634	24366229	CF, 2.2 ohm CF, 2.2 ohm
R634 R641	24366229 24366103	CF, 10k ohm
R642	24366103	CF, 100 ohm
R643	24552331	OMF, 330 ohm, 1/2W
R644	24552331	OMF, 330 ohm, 1/2W
R662	24366103	CF, 10k ohm
R666	24366103	CF, 10k ohm
R667	24366103	CF, 10k ohm
R668	24366103	CF, 10k ohm
R670	24366682	CF, 6800 ohm
R673	24366222	•
R674	24366102	-
R675	24366222	CF, 2200 ohm
R681	24366682	•
R687	24366103	CF, 10k ohm CF, 100k ohm
R688 R689	24366104 24366103	CF, 100k ohm
△ R801	24009954	Metal-Glazed Resistor,
	2-1000004	2.2M ohm, 1/2W

Location		
No.	Part No.	Description
110:		
R803	24382683	
R805	24366101	CF, 100 ohm
R810	24366122	CF, 1200 ohm OMF, 10k ohm, 1/2W
R812		
R813		CF, 2700 ohm
R815		OMF, 1k ohm, 1/2W
R816		OMF, 18 ohm, 1W
R817	24322278	MF, 0.27 ohm, 1W
R818	24321829	
R819	24366472	CF, 4700 ohm
R820	24366101	CF, 100 ohm CF, 4700 ohm
R825		
R832	24321228	MF, 0.22 ohm, 1/2W Metal-Glazed Resistor,
△ no33	24005007	8.2M ohm, 1W
R842	24266691	CF, 680 ohm
R843		CF, 820 ohm
R848		OMF, 3300 ohm, 1/2W
R860		
R861	24366221	CF, 680 ohm CF, 220 ohm
R863	24366102	CF, 1k ohm
R865	24366681	CF, 680 ohm
R866	24366471	CF, 680 ohm CF, 470 ohm
R867	24366103	
R868		CF, 4700 ohm
R870		OMF, 22k ohm, 1W
R872		Cement, 3.3 ohm, 10W
R878	24531560	
R879	24366472	CF, 4700 ohm
R884	24531120	FR, 12 ohm, 1/2W
R890	24019340	PTC Thermistor,
		18 ohm, 290V
R893	24366103	CF, 10k ohm
R901	24552272	OMF, 2700 ohm, 1/2W
R902	24552272	OMF, 2700 ohm, 1/2W
R903	24552272	OMF, 2700 ohm, 1/2W
R920	24000568	FR, 4.7 ohm, 1W
RA01	24366331	CF, 330 ohm
RA02	24366331	CF, 330 ohm
RA03		CF, 330 ohm
RA04	24366331	CF, 330 ohm
RA06		CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366102	CF, 1k ohm
RA11	24366102	CF, 1k ohm
RA12	24366102	CF, 1k ohm
RA13	24366101	CF, 100 ohm
RA14	24366331	CF, 330 ohm
RA15 RA16	24366331 24366331	CF, 330 ohm CF, 330 ohm
RA16	24366331	CF, 330 ohm
RA17 RA18	24366331	CF, 330 ohm
RA19	24366331	CF, 330 ohm
RA20	24366331	CF, 330 ohm
RA21	24366331	CF, 330 ohm
RA22	24366472	CF, 4700 ohm
RA23	24366472	· · · · · · · · · · · · · · · · · · ·
RA26	24366273	-
RA27		CF, 1k ohm
RA29	24366102	
RA30	24366821	
RA31	24366102	
1		

Location No.	Part No.	Description	
2400	0.000004	OF 000 I	
RA32	24366331	CF, 330 ohm	
RA33 RA34	24366331 24366331	CF, 330 ohm CF, 330 ohm	
RA35	24366272		
RA36	24366102		
RA37	24366102	CF, 1k ohm	
RA43	24366102		
RA44	24366103		
RA45	24366102	CF, 1k ohm	
RA46	24366102	CF, 1k ohm	
RA47	24366473		
RA48	24366102		
RA49	24366331	CF, 330 ohm	
RA50	24366331	CF, 330 ohm	
RA51	24366101	CF, 100 onm	
RA52	24366101	CF, 100 ohm	
RA56	24366472	CF, 4700 ohm	
RA60	24366472		
RA61	24366472	CF, 4700 ohm	
RA62	24366472	CF, 4700 ohm	
RA63 RA68	24366472 24366470	CF, 4700 ohm CF, 47 ohm	
RA69	24366472		
RA70			
RA75	24366103 24366103	CF, 10k ohm	
RA80	24366103		
RA81	24366103	CF, 10k ohm	
RA84	24366472		
RA85	24366472	CF, 4700 ohm	
RA86	24366472	CF, 4700 ohm	
RA87	24366472		
RA88	24366472		
RA89	24366103	•	
RA96	24366271		
RA97	24366332	CF, 3300 ohm	
RA98 RA99	24366682 24366203	CF, 6800 ohm	
RB01	24366203	CF, 20k ohm CF, 270 ohm	
RB02	24366332	•	
RB03	24366103		
RB04	24366103		
RB07	24366103	CF, 10k ohm	
RB09	24366470	CF, 47 ohm	
RB10	24366182	CF, 1800 ohm	
RB11	24366471	CF, 470 ohm	
RB12	24366333		
RB13	24366564	CF, 560k ohm	
RB14	24366123	CF, 12k ohm	
RB15	24366392	CF, 3900 ohm	
RB16	24366392	CF, 3900 ohm	
RB17	24366472	CF, 4700 ohm	
RB18	24366103 24366223	CF, 10k ohm	
RB19 RB33	24366103	CF, 22k ohm CF, 10k ohm	
RB51	24366103	CF, 100 ohm	
RB52	24366101	CF, 100 ohm	
RD01	24000211	FR, 15 ohm, 1/2W	
RD02	24323229	MF, 2.2 ohm, 2W	
RD03	24366562	CF, 5600 ohm	
RD04	24552102	OMF, 1k ohm, 1/2W	
RD05	24552332	OMF, 3300 ohm, 1/2W	
RD06	24366242	CF, 2400 ohm	
RD07	24366273	CF, 27k ohm	
RD08	24366114	CF, 110k ohm	

Location			
No.	Part No.	Description	
	2/266452	CE 15k ohm	
RD09 RD10	24366153	CF, 15k ohm CF, 15k ohm	
RE01		CF, 100 ohm	
RE02	24366820	CF, 82 ohm	
RE03		CF, 5600 ohm	
RE04		CF, 220 ohm	
RE05		CF, 22 ohm CF, 680 ohm	
RE06 RE07		CF, 1600 ohm	
RE09	24366102	CF, 1k ohm	
RE10	24366332	CF, 3300 ohm	
RE11	24366221	CF, 220 ohm	
RE13	24366332	CF, 3300 ohm	
RE14		CF, 2200 ohm	
RE15		CF, 39k ohm	
RE16		CF, 27k ohm	
RE17 RE18		CF, 470k ohm CF, 15k ohm	
RE19	24366103	CF, 10k ohm	
RE20	24366101	CF, 100 ohm	
RE21	24366123	CF, 12k ohm	
RE22		CF, 560k ohm	
RE23	24366474	CF, 470k ohm	
RE30	24366333	CF, 33k ohm	
RE31		CF, 56k ohm	
RE32	24366183	CF, 18k ohm CF, 1k ohm	
RE33 RE34	24300 IU2	CF, 1k ohm	
RF20		CF, 1k ohm	
RF21	24366102	CF, 1k ohm	
RF22		CF, 100 ohm	
RF23	24366102	CF, 1k ohm	
RG60		CF, 4700 ohm	
RG61	24366472	CF, 4700 ohm	
RG62		CF, 3900 ohm CF, 3900 ohm	
RG63 RG64			
RG65	24366101	CF, 100 ohm CF, 100 ohm	
RG66	24366101	CF, 100 ohm	
RG67	24366101	CF, 100 ohm CF, 470k ohm	
RG68		CF, 470k ohm	
RM26	24366153	CF, 15k ohm	
RN01	24366101		
RN02	24366152	CF, 1500 ohm	
RN08		CF, 10k ohm CF, 10k ohm	
RN11 RN12	24366103		
RN13	24366103		
RN21	24366473		
RN22	24366473		
RN24	24366332	CF, 3300 ohm	
RN34	24366104		
RN35	24366561		
RV01	24366101 24366102		
RV02 RV03	24366102		
RV03	24366472		
RV04	24366102		
RV08	24366102		
RV10	24366101	CF, 100 ohm	
RV11	24366472	CF, 4700 ohm	
RV12		CF, 4700 ohm	
RV13	24366101		
RV16	24366104	CF, 100k ohm	

Location No.	Part No.	Description
RV17	24366223	CF, 22k ohm
RV18	24366473	
RV21	24366101	CF, 100 ohm
RV22	24366101	CF, 100 ohm
RV23	24366561	CF, 560 ohm
RV24	24552331	OMF, 330 ohm, 1/2W FR, 47 ohm, ±2%, 1/4W
RV25		
RV26		CF, 2200 ohm
RV27	24366104	CF, 100k ohm
RV28	24366104	CF, 100k ohm
RV29		CF, 270 ohm
RV30	24366152	CF, 1500 ohm
RV34	24366151	
RV36	24366750	CF, 75 ohm CF, 100k ohm
RV37		
RV38		CF, 100k ohm
RV39		CF, 75 ohm CF, 75 ohm
RV40	24366750	
RV41	24366103	CF, 75 ohm
RV42	24366750	
RV43	24366620	
RV44	24366620	CF, 62 ohm
RV45	24366101	
RV47	24300101	CF 1k ohm
RV49 RV60	24500102	CF, 1k ohm OMF, 390 ohm, 1/2W
RV60	24366130	CF, 13 ohm
RV62	24366130	
RV63	24366130	
RV64	24366104	
RV65	24366104	
RV66	24366104	
RV67	24366104	CF, 100k ohm
RV68	24366123	
RV69	24366822	
RV71	24366750	
RV72	24366103	CF, 10k ohm
RV73	24366750	CF, 75 ohm
RV74	24366472	CF, 4700 ohm CF, 4700 ohm
RV75	24366472	CF, 4700 ohm
RV76	24366101	CF, 100 ohm
RV77	24366152	CF, 1500 ohm
RV78		CF, 10k ohm
RV79	24366750	
RV83	24366123	
RV84		CF, 8200 ohm
RV91	24366102	CF, 1k ohm
RW25	24366221	CF, 220 onm
RW26		CF, 220 ohm
RX01	24366102	CF, 1k ohm CF, 100 ohm
RX02		
RX03		CF, 100 ohm CF, 100 ohm
RX10	24366101	CF, 100 onm CF, 1k ohm
RX12		CF, 3300 ohm
RX13	24366332	
RX14	24366473	
RX15	24366473	
RX19 RX20	24300002	CF, 1500 ohm
RX20	24366562	
		CF, 5600 ohm
	24300002	01 , 0000 OIIII
RX22 RX27	24266102	CF, 1k ohm

Location	Part No.	Description
No.		
L202	23289270	Coil, Peaking, TRF4270AF
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289101	Coil, Peaking, TRF4101AF
L315	23238714	Coil, Peaking, TRF4100AJ
L405	23221685	Coil, Choke, TLN3193
L412	23221684	Coil, Choke, TLN3191D
L412		•
	23103859	Coil (Ferrite Bead), TEM2011
L421	23248116	Coil, Choke, TLN3368D
L422	23248117	Coil, Choke, TLN3382D
L441	23233947	Coil, Linearity, TLN2144G
L503	23238714	Coil, Peaking, TRF4100AJ
L551	23250972	Coil, 1H-Delay Matching,
		TRF5418D
L590	23289100	Coil, Peaking, TRF4100AF
L643	23103859	Coil (Ferrite Bead), TEM2011
L810	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L821	23280016	Coil, Peaking, TRF4100AZ
L823	23221747	Coil, Choke, TRF9253D
L826	23248073	Coil, Choke, TLN3299D
L829	23103859	Coil (Ferrite Bead), TEM2011
L842	23103859	Coil (Ferrite Bead), TEM2011
L866	23289229	Coil, Peaking, TRF42R2AF
L880	23289229	Coil, Peaking, TRF4100AZ
△L901	23200276	Coil, Degaussing, TSB-2330BR
△ La∪ I	23200270	(2863DN)
A 1 004	20000075	(
△ L901	23200275	Coil, Degaussing, TSB-2329BR
		(2563DN)
LA12	23221803	Coil, Choke, TLN3040D
LA38	23103859	Coil (Ferrite Bead), TEM2011
LA39	23103859	Coil (Ferrite Bead), TEM2011
LA44	23103859	Coil (Ferrite Bead), TEM2011
LA45	23289109	Coil, Peaking, TRF41R0AF
LC02	23238562	Coil, Peaking, TRF4109AJ
LC03	23238562	Coil, Peaking, TRF4109AJ
LD02	23221896	Coil, Choke, TLN3061
LN01	23238713	Coil, Peaking, TRF4120AJ
LN03	23238710	Coil, Peaking, TRF4220AJ
LV01	23289220	Coil, Peaking, TRF4220AF
LV03	23289270	Coil, Peaking, TRF4270AF
T401	23224336	Transformer, Horiz. Drive,
1401	20224000	TLN1083
↑ T461	22226454	
△\ 1461	23236454	Transformer, Flyback,
T004	00044075	TFB4117AR
T801	23211670	Line Filter, TRF3164G
∆ T803	23217214	Transformer, Converter,
		TPW3283AR
SEMICOND		
Q205	23114454	Transistor, DTC144E-S
Q207	A6002010	Transistor, RN1201
Q208	A6317440	Transistor, 2SC1815-Y
Q213	A6317440	Transistor, 2SC1815-Y
Q240	A6002020	Transistor, RN1202
Q261	A6534053	Transistor, 2SA1015-Y(TE
Q301	B0378560	IC, TA8427K
Q301	B0378560 B0384683	IC, TA8859AP
		-
Q340	A6534053	Transistor, 2SA1015-Y(TE
Q341	A6317440	Transistor, 2SC1815-Y
Q342	A6002020	Transistor, RN1202
Q402	A678971D	Transistor, 2SC1569 FA-5
Q404	A6872801	Transistor, 2SD2253(FA)
Q408	23905815	IC, UPC2412AHF
Q430	A6317440	Transistor, 2SC1815-Y
		,

Location	Part No.	Description	
No.			
0/31	Q431 A6002060 Transistor, RN1206		
Q432	A6534053	Transistor, 2SA1015-Y(TE	
Q470	A6547250	Transistor, 2SA1320	
Q501	B0384303	IC. TA8808BN	
Q505	A6363200	Transistor, 2SC3619	
Q506	A6317440	Transistor, 2SC1815-Y	
Q507	A6363200	Transistor, 2SC3619	
Q508	A6317440	Transistor, 2SC1815-Y	
Q509	A6363200	Transistor, 2SC3619	
Q510	A6317440		
Q514	A6509127	Transistor, 2SA562TM-O(T	
Q516	A6321265	Transistor, 2SC2120-Y(TE)	
Q604	A6534053	Transistor, 2SA1015-Y(TE	
Q605	B0376856	IC, TA8211AH	
Q608	A6010040	Transistor, RN2004	
Q621	A6342206		
Q622	A6342206	Transistor, 2SC2878-A(TE	
Q671	A6342206	Transistor, 2SC2878-A(TE	
Q673	A6342206	Transistor, 2SC2878-A(TE	
Q801	23904247	IC, STR-S6708	
Q802	23314141	Transistor, 2SC3852	
△ Q826	A8645166	Photo Coupler, TLP721F(D4-G	
Q827	A6907751	IC, S1854	
Q828	A6317440	Transistor, 2SC1815-Y	
Q831	A6317440	Transistor, 2SC1815-Y	
Q835	23318299	IC, L78MR05 Transistor, 2SA1015-Y(TE	
Q836 Q861	A6534053 23314141	Transistor, 2SC3852	
Q870	A6333346	Transistor, 2SC3652 Transistor, 2SC2655-Y(C)	
Q871	A6317440	Transistor, 2SC2655-1(C)	
Q890	23314141	Transistor, 2SC3852	
QA01	23905782	IC, SAA5296ZP028	
QA02	23904665	IC, NM24C04EN	
QB01	A6317440	Transistor, 2SC1815-Y	
QB10	A6534053	Transistor, 2SA1015-Y(TE	
QB11	A6317440	Transistor, 2SC1815-Y	
QB12	A6534053	Transistor, 2SA1015-Y(TE	
QB33	A6317440	Transistor, 2SC1815-Y	
QD01	A6625365	Transistor, 2SB688-O(BS)	
QD02	A6317440	Transistor, 2SC1815-Y	
QD03	A6317440	Transistor, 2SC1815-Y	
QE01	A6534053	Transistor, 2SA1015-Y(TE	
QE02	23318244	IC, CX20125	
QE03	A6534053	Transistor, 2SA1015-Y(TE	
QE04	A6317440	Transistor, 2SC1815-Y	
QE05	A6534053	Transistor, 2SA1015-Y(TE	
QE30	A6317440	Transistor, 2SC1815-Y	
QE31	A6317440	Transistor, 2SC1815-Y	
QE32	A6317440	Transistor, 2SC1815-Y	
QE33	A6734585	Transistor, 2SC752(G)TM-O	
QF06	A6317440 23905560	Transistor, 2SC1815-Y	
QG60 QN02		IC, M62420SP	
QN02 QN03	A6534053 A6534053	Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE	
QN08	A6317440	Transistor, 2SC1815-Y	
QN15	A6002060	Transistor, RN1206	
QN21	A6002000 A6000020	Transistor, RN1002	
QV01	B0383720	IC. TA8747N	
QV03	A6342206	Transistor, 2SC2878-A(TE	
QV04	A6534053	Transistor, 2SA1015-Y(TE	
QV05	A6534053	Transistor, 2SA1015-Y(TE	
QV06	A6534053	Transistor, 2SA1015-Y(TE	
QV07	A6317440	Transistor, 2SC1815-Y	
QX01	23119139	IC, AN5862K	

Location	Down Ma	Description
No.	Part No.	Description
QX10		Transistor, 2SC1815-Y
QY09	A6000020	Transistor, RN1002
D108	23316756	Diode, Zener, MTZJ33D
D201	23115599	Diode, 1N4148
D202	23115599	Diode, 1N4148
D203	23115599	
D204	23115599	
D205		Diode, 1N4148
D301	23118479	Diode, BYD33J
D202		Diode, BYD33J
D303 D304		Diode, 1N4148
D304		Diode, 1N4148
D320	23118822	
D321		Diode, ERB12-02
	23316794	
D332	23310794	Diode, SC570A
D340	233 16666	Diode, Zener, MTZJ4.7B
D401		Diode, Zener, MTZJ12B
D402	23316734	
D403	23316719	Diode, Zener, MTZJ12B Diode, BYD33J
D406		
D408	23118052	Diode, RU4Z
D410	23316684	Diode, Zener, MTZJ8.2B
D471	A7801205	SCR, SF0R3G42
D474	23316728	Diode, Zener, MTZJ16B
D475	23316719	
D590	23115599	Diode, 1N4148
D591	23115599	
D592	23115599	
D594	23115599	
D595	23115599	
D596	23115599	· · · · · · · · · · · · · · · · · · ·
D601	23115599	
D636	23115599	
D637	23115599	
D638	23115599	•
D639	23115599	
D640	23115599	Diode, 1N4148
D641	23115599	
D801	23316391	
D802		Diode, BYD33J
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23115599	Diode, 1N4148
D813	23118479	•
D814	23115599	
D815	23316725	
D816	23316674	
D825	23115599	Diode, 1N4148
D826	23115599	Diode, 1N4148
1		Diode, RU4Z
D830	23118052	•
D831	23118052	
D832	23118451	
D844	23316718	Diode, Zener, MTZJ12A
D848	23316666	
D861	23316672	· · · · · · · · · · · · · · · · · · ·
D862	23316690	Diode, Zener, MTZJ10B
D874	23316670	Diode, Zener, MTZJ5.1C

Location			
No.	Part No.	Description	
D875	23115599	Diode, 1N4148	
D878	23316671	Diode, Zener, MTZJ5.6A	
DA02	23115599		
DA03	23115599		
DA04	23115599 23115599	•	
DA07 DA10	23115599		
DA11	23115599		
DA16	23115599		
DA17	23115599		
DA44	23316675	The state of the s	
DB01	23358504		
DD01	23118479		
DD02	23316582	Diode, ERC20-06	
DD03	23118479	-	
DD04	23115599		
DD05	23316718		
DD06	23316672		
DD07	23316672		
DE01	23115599		
DE02	23115599		
DE03		Diode, 1N4148	
DE30 DV01	23316681 23316690		
DV01	23316690	Diode, Zener, MTZJ10B	
DV03	23316690		
DV08	23316687		
DV40	23115599		
DV44	23316666		
DX03	23115599		
DX04	23115599	•	
DX05	23115599		
DX06	23115599	Diode, 1N4148	
DX07	23115599		
DX08	23115599		
DX09	23115599	•	
DX10	23115599		
DX11		Diode, 1N4148	
DX12		Diode, Zener, MTZJ4.7B	
DX13	23115599	Diode, 1N4148	
MISCELLA	ANEOUS		
 ∆ F801	23144473	Fuse, 5.0A	
F801A	23165433	Holder, Fuse	
△ F803	23144502	Fuse, 1.0A	
F803A	23165433		
G102 G103	23289109	Coil, Peaking, TRF41R0AF	
G103 G105	23289109 23289109	Coil, Peaking, TRF41R0AF Coil, Peaking, TRF41R0AF	
G105	23289109	Coil, Peaking, TRF41R0AF	
G108	23289109	Coil, Peaking, TRF41R0AF	
G109	23289109	Coil, Peaking, TRF41R0AF	
G343	24366103	CF, 10k ohm	
G591	23289100	Coil, Peaking, TRF4100AF	
GA32	23115599	Diode, 1N4148	
GA33	23115599	Diode, 1N4148	
GA34	23115599	Diode, 1N4148	
GV84	24366681	CF, 680 ohm	
GV85	24366681	CF, 680 ohm	
GV86	24366681	CF, 680 ohm	
GV87	24366681	CF, 680 ohm	
GV88	24366681	CF, 680 ohm	
GV89	24366681	CF, 680 ohm	

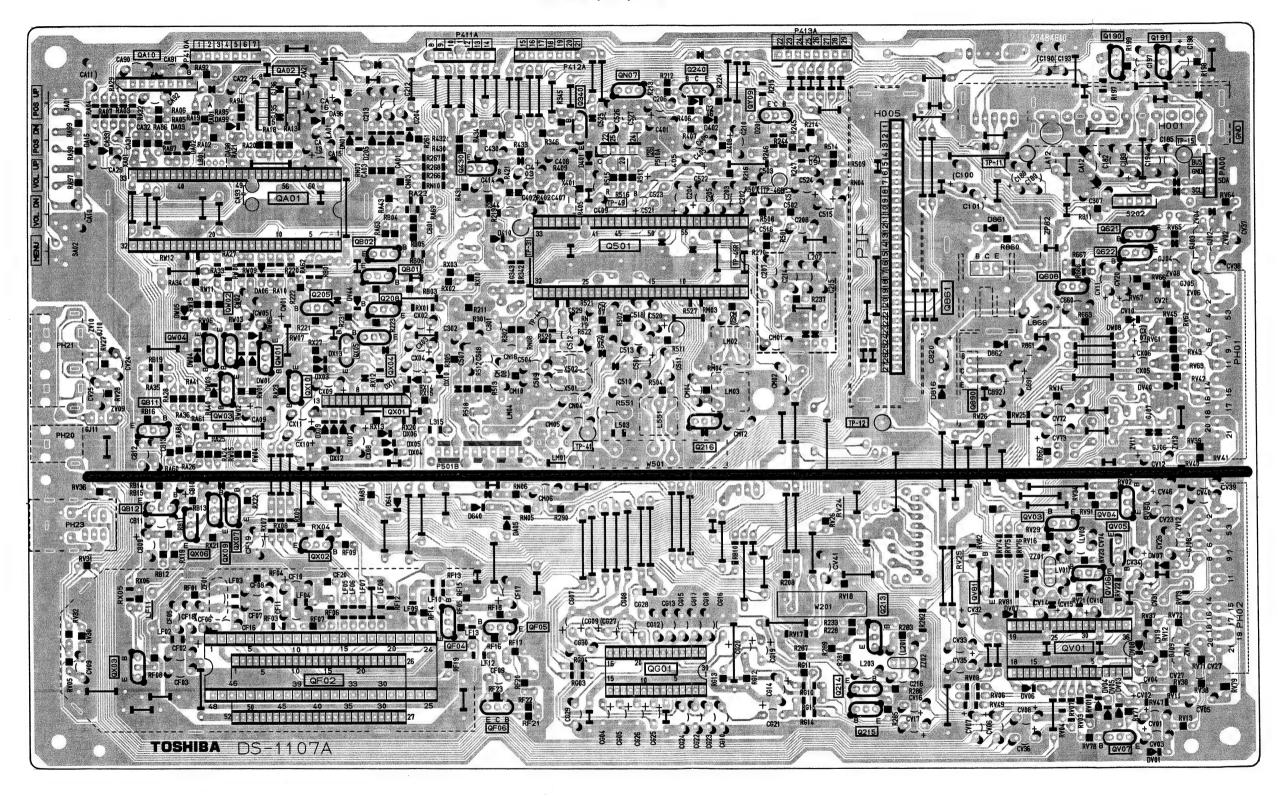
Location	Port No	Description	
No.	rail No.	Description	
H005	H005 23148270 Module, MVGS46A,		
		IGR/NICAM	
KB01	23904946	Remote Sensor,	
		RPM-676CBR-S	
P681	23363607	Headphone Jack, 3.5mm	
△P801	23372014		
PH01	23365598		
PH02	23365598		
PH20	23363252	Pin Jack, Yellow	
PH21	23365508		
S202	23344333	Switch, Lever, 1C3P	
∆ S801	23344395	Switch, Power	
SA01	23145430	Switch, Push, 1C1P	
SA02	23145430		
SA03	23145430		
SA04	23145430	Switch, Push, 1C1P	
SA05	23145430		
△ V901A	23902891	Socket, CRT, 10P	
W202	23250118	Delay Line, TRF2081T	
W501	23250949	Delay Line, PAL Chroma,	
		DL701	
W661	23351116	Speaker, SPK-1382,	
"""	20001110	60x120mm, 8 ohm	
W662	23351116		
VV002	23351110	Speaker, SPK-1382,	
		60x120mm, 8 ohm	
X401	23153721	Ceramic Resonator, 503kHz,	
		TCR1023	
X501	23153979	Crystal, 4.43MHz	
XA01	23153930	Crystal, 12.0MHz	
XE01	23250861	Delay Line, TRF2093	
△ZP81	23144543	Protector, PRF50005491,	
252101	25144545		
li .		125V, 5A	
A 7000	224 4 4526	Duntanton DDC1000E401	
△ZP82	23144536	Protector, PRF10005491,	
		125V, 1A	
∆ZP82 ZZ01			
ZZ01	23303056	125V, 1A Ceramic Trap, TCF1085, 4.43M	
	23303056	125V, 1A Ceramic Trap, TCF1085, 4.43M	
ZZ01	23303056	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES	
ZZ01 PC BOARD	23303056 ASSEMBI	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES	
ZZ01 PC BOARD * U901	23303056 ASSEMBI 23705626	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN)	
ZZ01 PC BOARD	23303056 ASSEMBI	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X	
ZZ01 PC BOARD * U901 * U901	23303056 ASSEMBI 23705626 23705359	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN)	
ZZ01 PC BOARD * U901 * U901	23303056 ASSEMBI 23705626	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1	
ZZ01 PC BOARD * U901 * U901 * U902A	23303056 ASSEMBI 23705626 23705359 23705959	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN)	
ZZ01 PC BOARD * U901 * U901	23303056 ASSEMBI 23705626 23705359	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1	
ZZ01 PC BOARD * U901 * U901 * U902A	23303056 ASSEMBI 23705626 23705359 23705959	125V, 1A Ceramic Trap, TCF1085, 4.43M LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A	23303056 ASSEMBI 23705626 23705359 23705959	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A	23303056 ASSEMBI 23705626 23705359 23705959 23705960	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A	23303056 ASSEMBI 23705626 23705359 23705959 23705960	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN) CHROMA Board, PB6338D-2	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN) CHROMA Board, PB6338D-2 (2863DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN) CHROMA Board, PB6338D-2 (2863DN) LTI Board, PB6338J-3,	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN) CHROMA Board, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMA Board, PB6338J-2 (2563DN) CHROMA Board, PB6338D-2 (2563DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board,	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board,	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902C * U902C * U903 * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board,	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C * U903 * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339D (2863DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902C * U902C * U903 * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339D (2863DN) Power/Def/Audio Board, PB6339D (2863DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902C * U902C * U903 * U903 PICTURE T A V901	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974 UBE 23312697	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339J (2863DN) Power/Def/Audio Board, PB6339D (2863DN) Picture Tube, A59ECF20X17 (2563DN)	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902B * U902C * U902C * U903 * U903	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339D (2863DN) Picture Tube, A59ECF20X17 (2563DN) Picture Tube, A66ECF20X17	
ZZ01 PC BOARD * U901 * U901 * U902A * U902A * U902B * U902C * U902C * U903 * U903 PICTURE T A V901	23303056 ASSEMBI 23705626 23705359 23705959 23705960 23705961 23705962 23705963 23705964 23705965 23705974 UBE 23312697	125V, 1A Ceramic Trap, TCF1085, 4.43Mi LIES CRT Drive Board, PB6337Y (2563DN) CRT Drive Board, PB6337X (2863DN) Signal Board, PB6338J-1 (2563DN) Signal Board, PB6338D-1 (2863DN) CHROMABoard, PB6338J-2 (2563DN) CHROMABoard, PB6338D-2 (2863DN) LTI Board, PB6338J-3, (2563DN) LTI Board, PB6338D-3 (2863DN) LTI Board, PB6338D-3 (2863DN) Power/Def/Audio Board, PB6339J, (2563DN) Power/Def/Audio Board, PB6339J (2863DN) Power/Def/Audio Board, PB6339D (2863DN) Picture Tube, A59ECF20X17 (2563DN)	

Location No.	Part No.	Description
TUNER		
H001	23321227	Tuner, EGA12LX1
ACCECCOR	IEC.	
ACCESSOR		Damata Hand Hait CT 0050
K902 AT03	23306168 23588016	•
Y101	23562877	Battery Cover Owner's Manual, English,
1101	23502677	2563DN/2863DN
Y102	23562879	•
Y103	23562881	
Y104	23562883	

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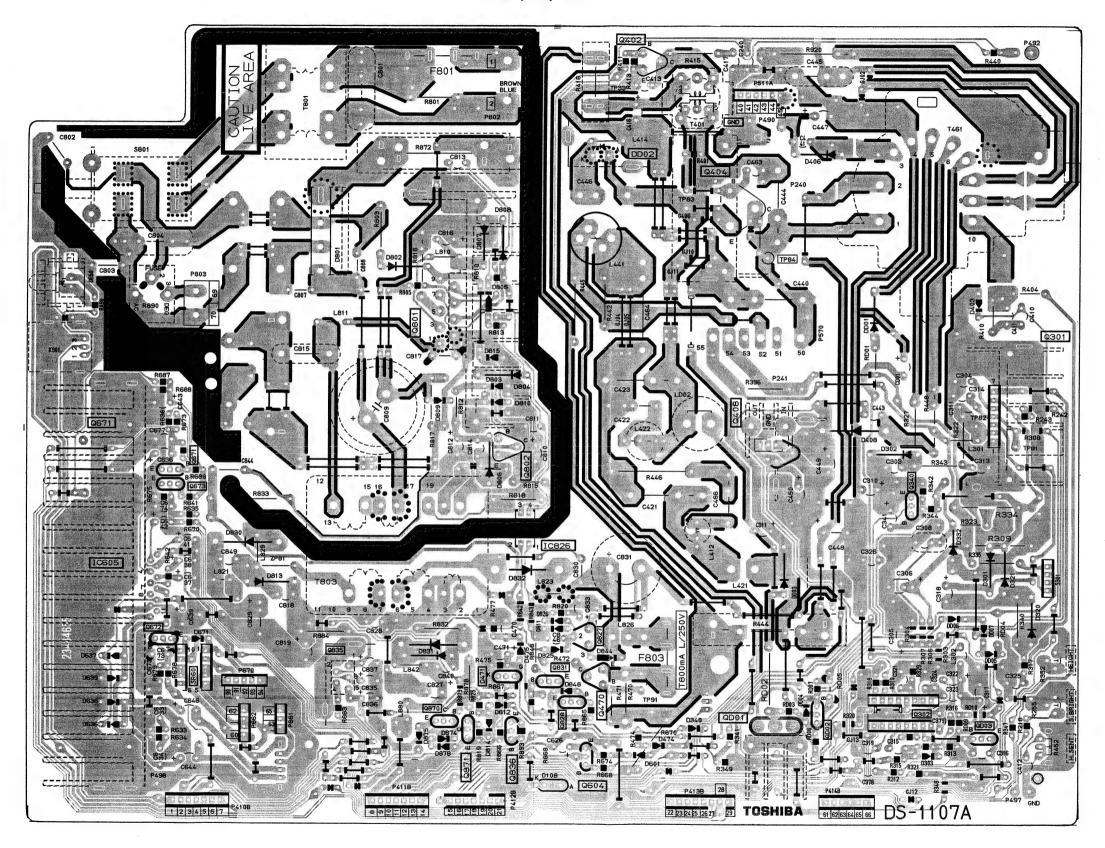
SIGNAL BOARD PB6338J-1 (2563DN) PB6338D-1 (2863DN)

BOTTOM (FOIL) SIDE



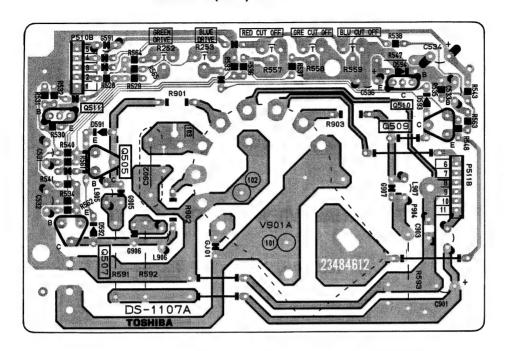
POWER/DEF/AUDIO BOARD PB6339J (2563DN) PB6339D (2863DN)

BOTTOM (FOIL) SIDE



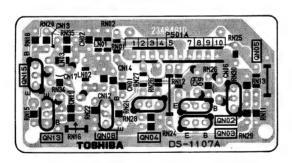
CRT DRIVE BOARD PB6337Y (2563DN) PB6337X (2863DN)

BOTTOM (FOIL) SIDE



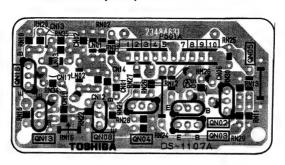
CHROMA BOARD PB6338J-2 (2563DN) PB6338D-2 (2863DN)

BOTTOM (FOIL) SIDE



LTI BOARD PB6338J-3 (2563DN) PB6338D-3 (2863DN)

BOTTOM (FOIL) SIDE



TERMINAL VIEW OF TRANSISTORS

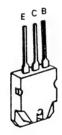


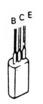


③ 2SC2580-C 2SC2655 2\$A933\$ 2\$A1015-Y 2\$A1320-Y 2\$C752GTM 2\$C1685-Q 2\$C1740\$ 2\$C1815-N 2\$C1959-Y 2\$C2120-Y 2\$C2878-A

4

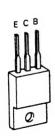






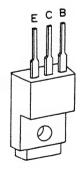


- \$\square\$ 2\$B1186A\$2\$C3852\$2\$D2253
- 6 2SC3619
- ⑦ RN1203 RN1204 RN1206 RN2004









MEMO	

 MEMO	

SCHEMATIC DIAGRAM

MODEL: 2863DN

(1/2)

CAUTION: The international hazard symbols "\(\Delta \)" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

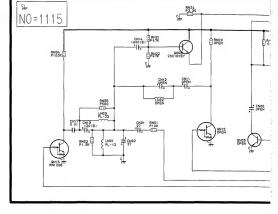
OBSERVATION OF VOLTAGES AND WAVEFORMS

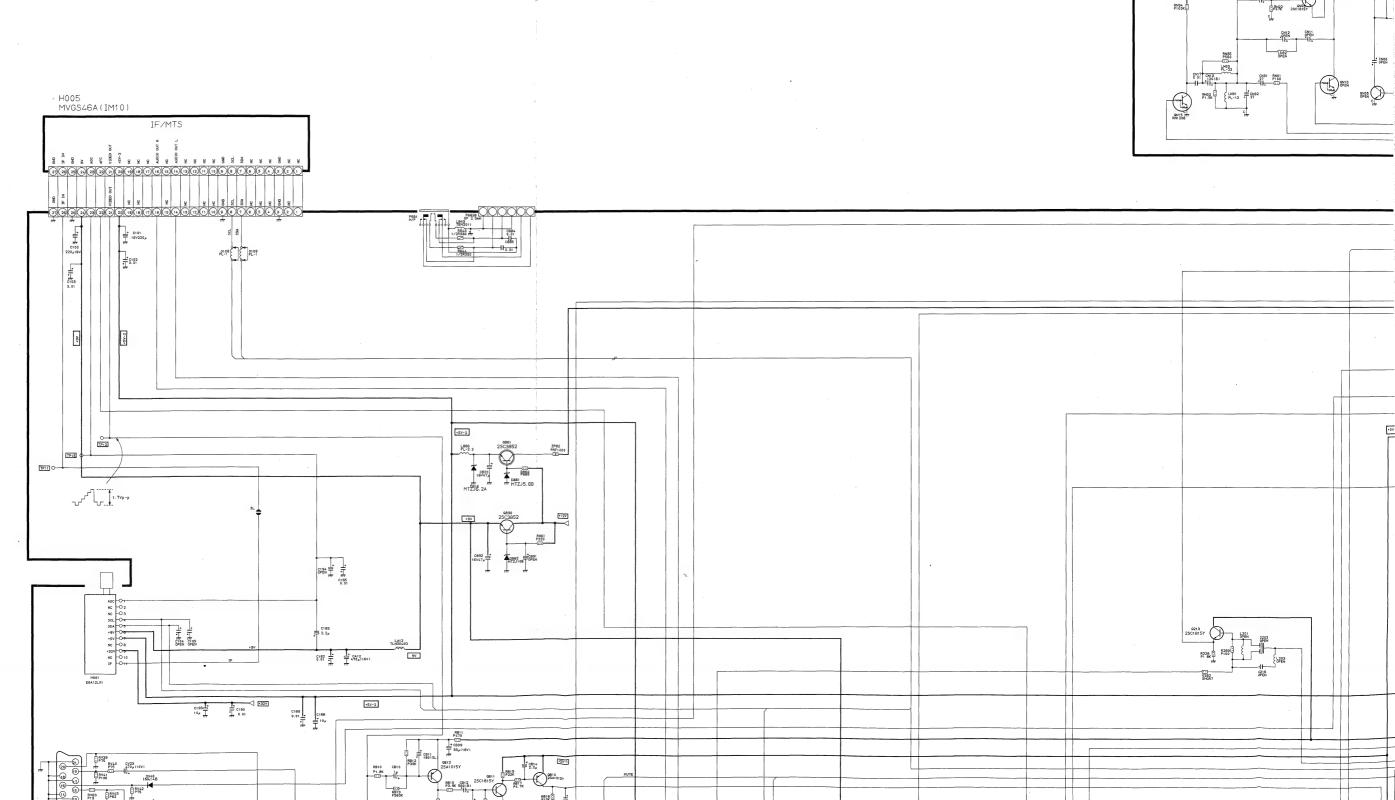
- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- Waveforms are taken using a standard colour bar signal.
 Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value of a principal transf gram. These are measured for separated from 2. The circuits are subject to change without
- 3. = : Solder links.

U902B CHROMA BOARD PB6338D



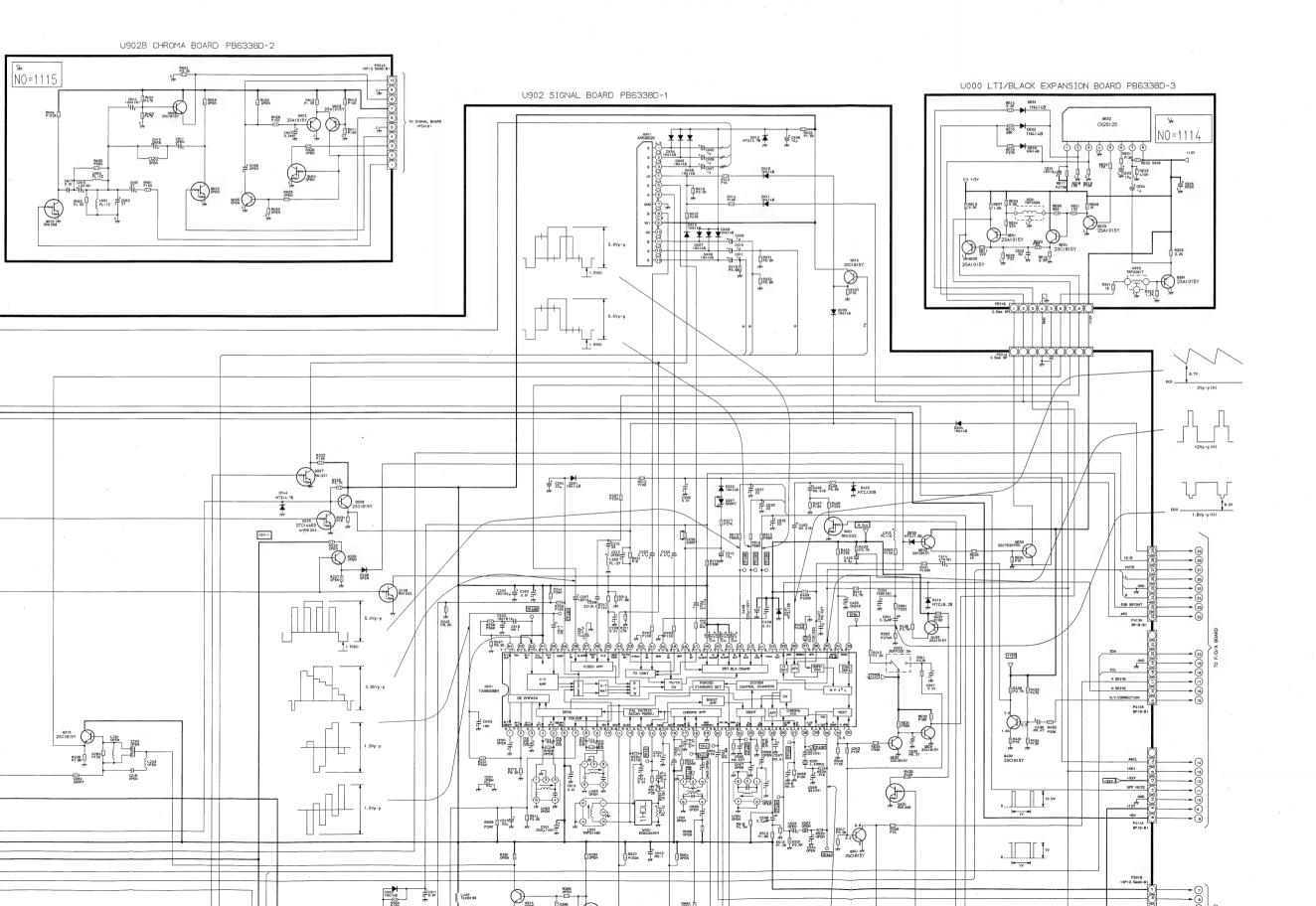


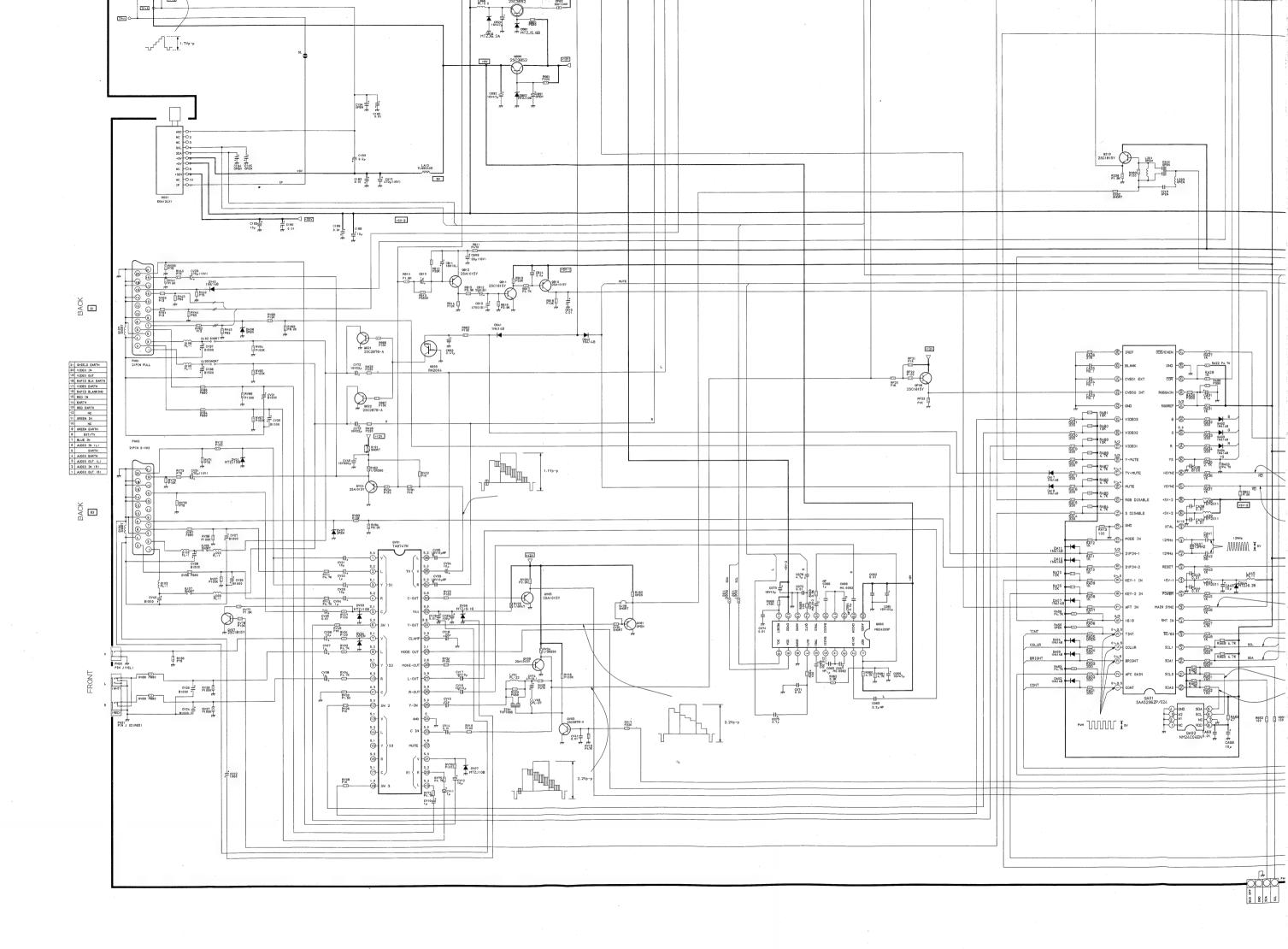
NOTES:

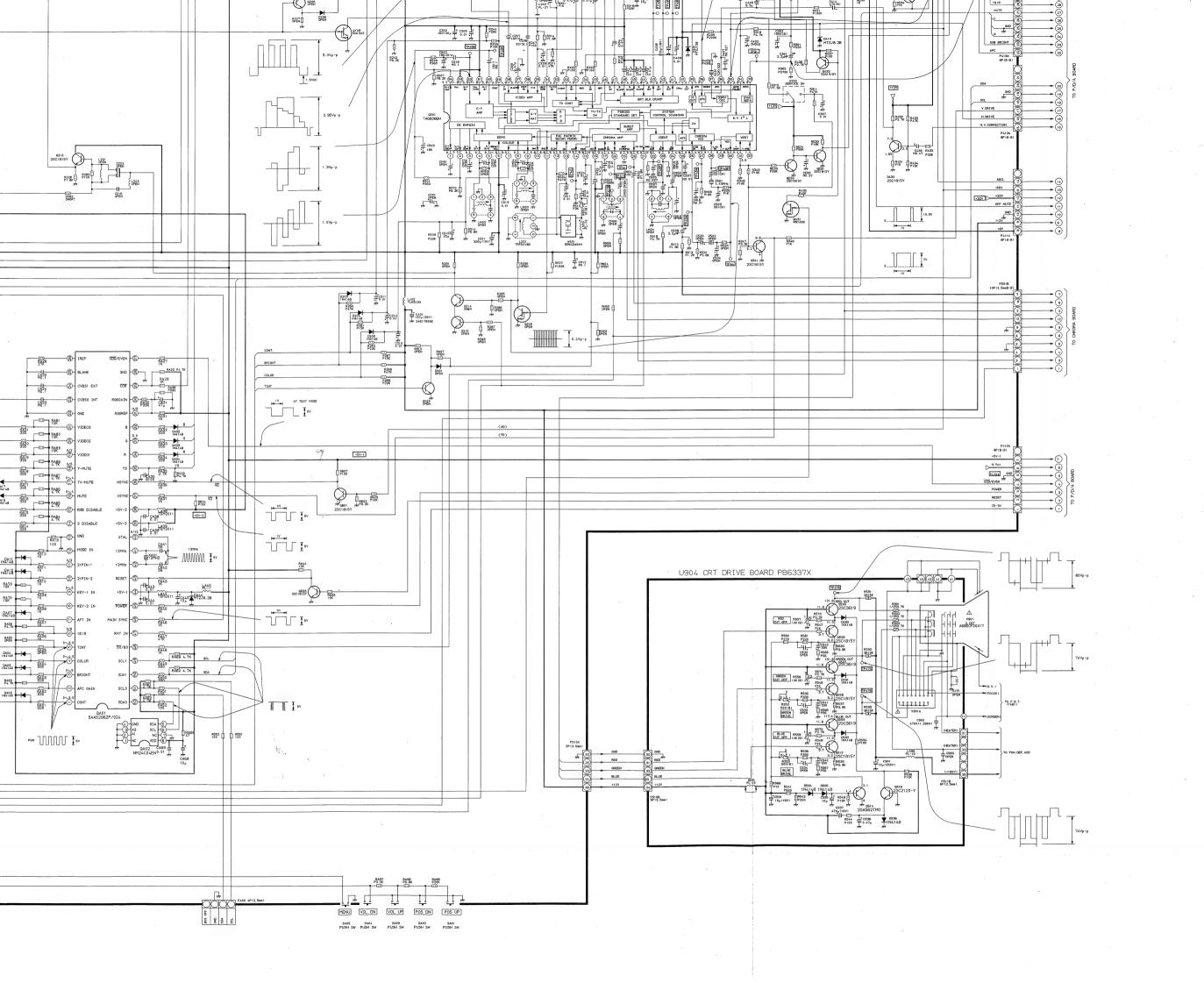
- 1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
- 2. The circuits are subject to change without notice.
- 3. 👄 : Solder links.

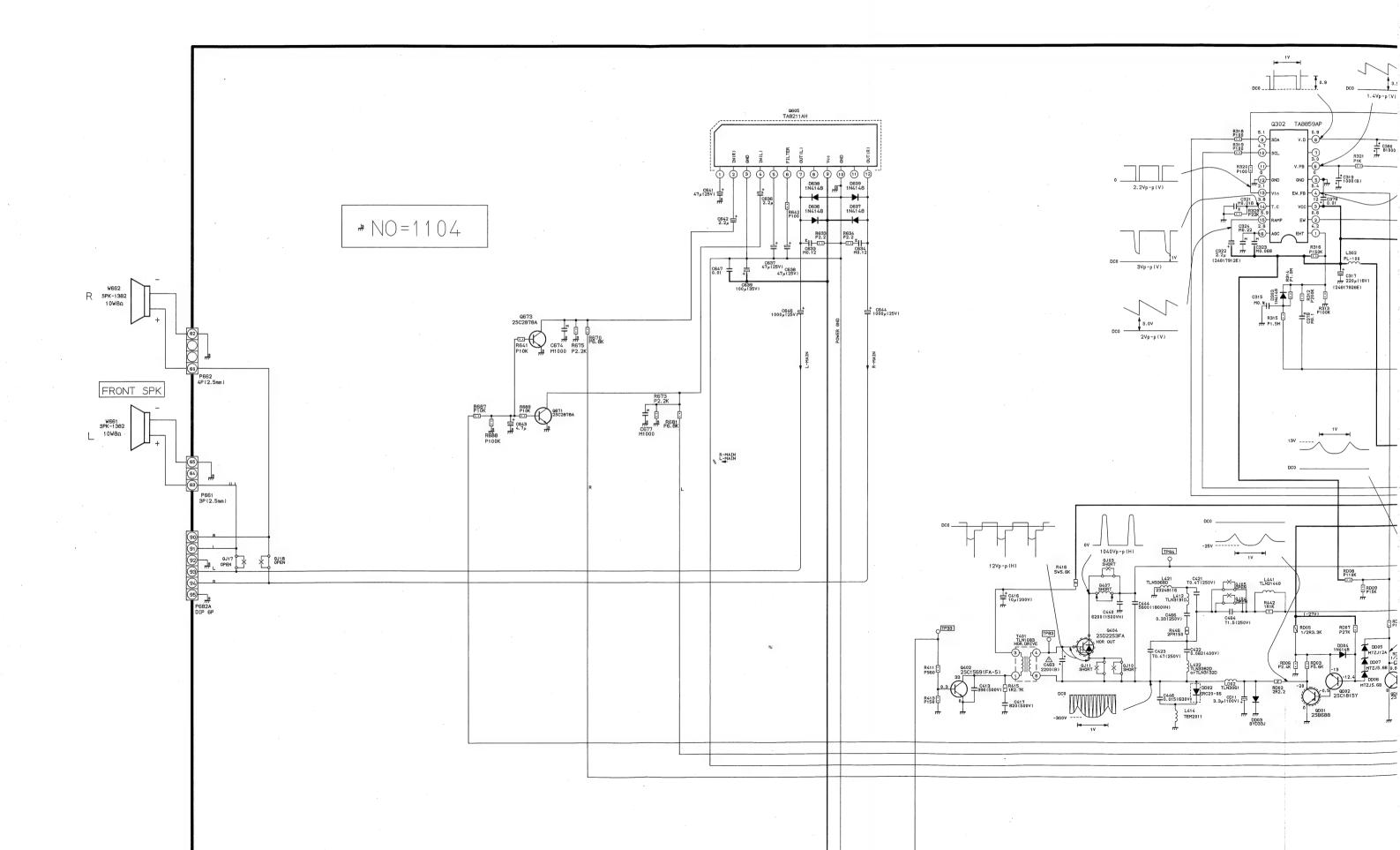
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

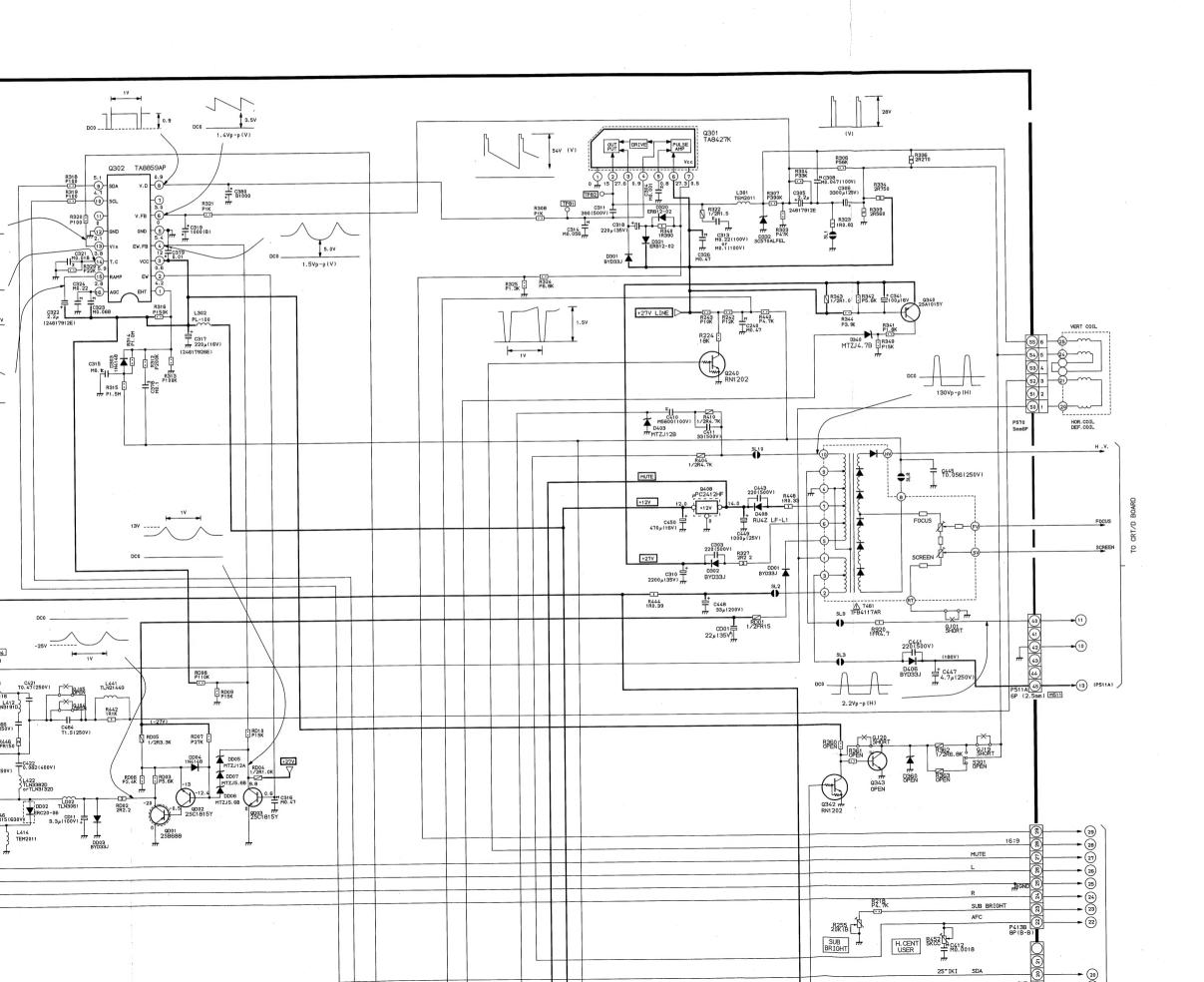
- 1. Resistance is shown in ohm, k=1,000, M=1,000,000
- 2. Unless other wise noted in schematic, all capacitor values less than 1 are expres-
- sed in μ F and the values more than 1 in pF. 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.

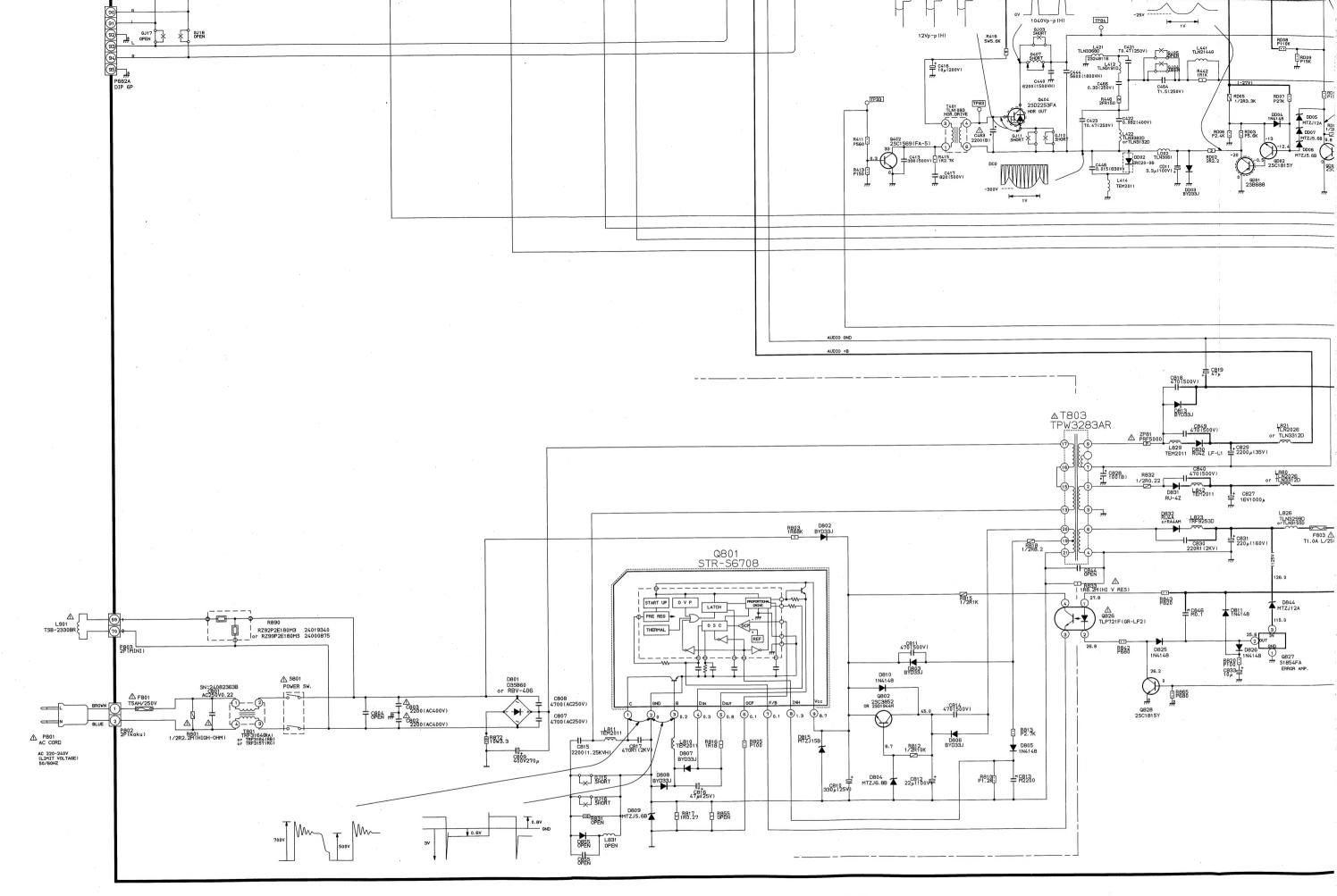




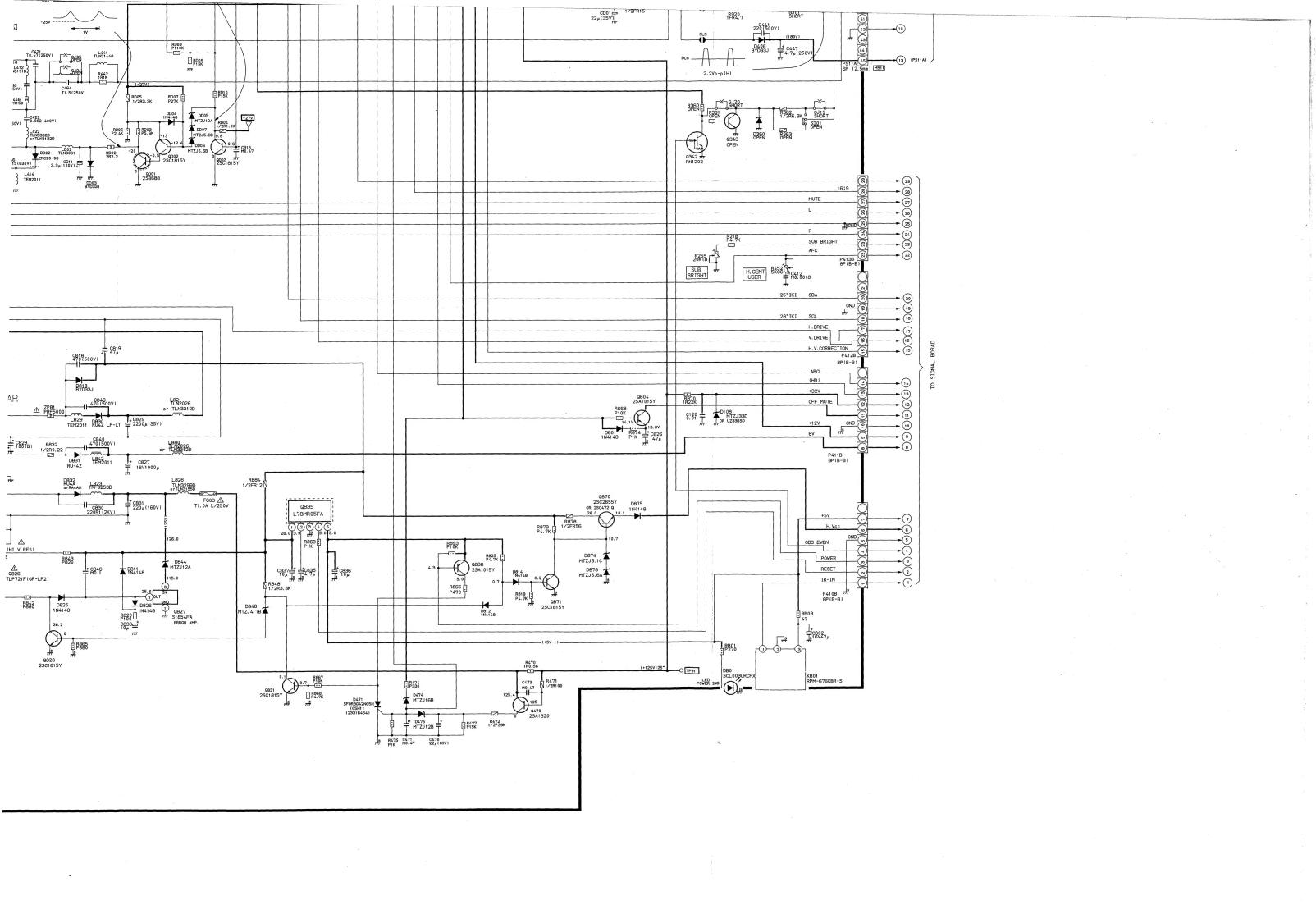








U903 POW. DEF. AUD. BOARD PB6339D



	SPECIFICATIONS		
Input Power Rating:	105 watts (2563DN), 110 watts (2863DN), AC 220-240	volts, 50 Hz	
Aerial Input Impedance:	75 ohm unbalanced type for UHF and VHF		
Receiving Channels:	CCIR (B/G, PAL) VHF 2~4, 5~12, S1~S20 UHF 21~69		
Intermediate Frequencies:	Picture I-F carrier frequency		
Picture Tube:	25 inches, A59ECF20X17 590 mm (diagonal of viewable area), 110° deflection : (2563DN) 28 inches, A66ECF20X17 660 mm (diagonal of viewable area), 110° deflection : (2863DN)		
Sound Output:	10.0 watts × 2		
Speakers:	120 mm × 60 mm oval 2 pcs (MAIN)		
Aux. Terminals:	21 pin socket VIDEO/AUDIO INPUT socket		
Dimensions:	Table type	(2563DN)	(2863DN)
	Height Width Depth	703 mm	568.5 mm 760 mm 480 mm
Mass:	26.8 kg (2563DN), 33.5 kg (2863DN)		
Features:	Video input of PAL/3.58N/4.43N, TELETEXT reception OFF-timer	n, NICAM Digital sto	ereo system,

Specifications are subject to change without notice.